

Ohio

UNIVERSITY

1804



Frank B. Jones

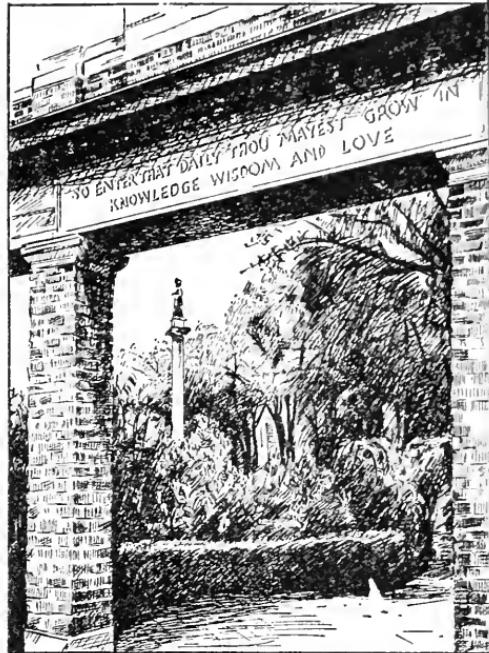
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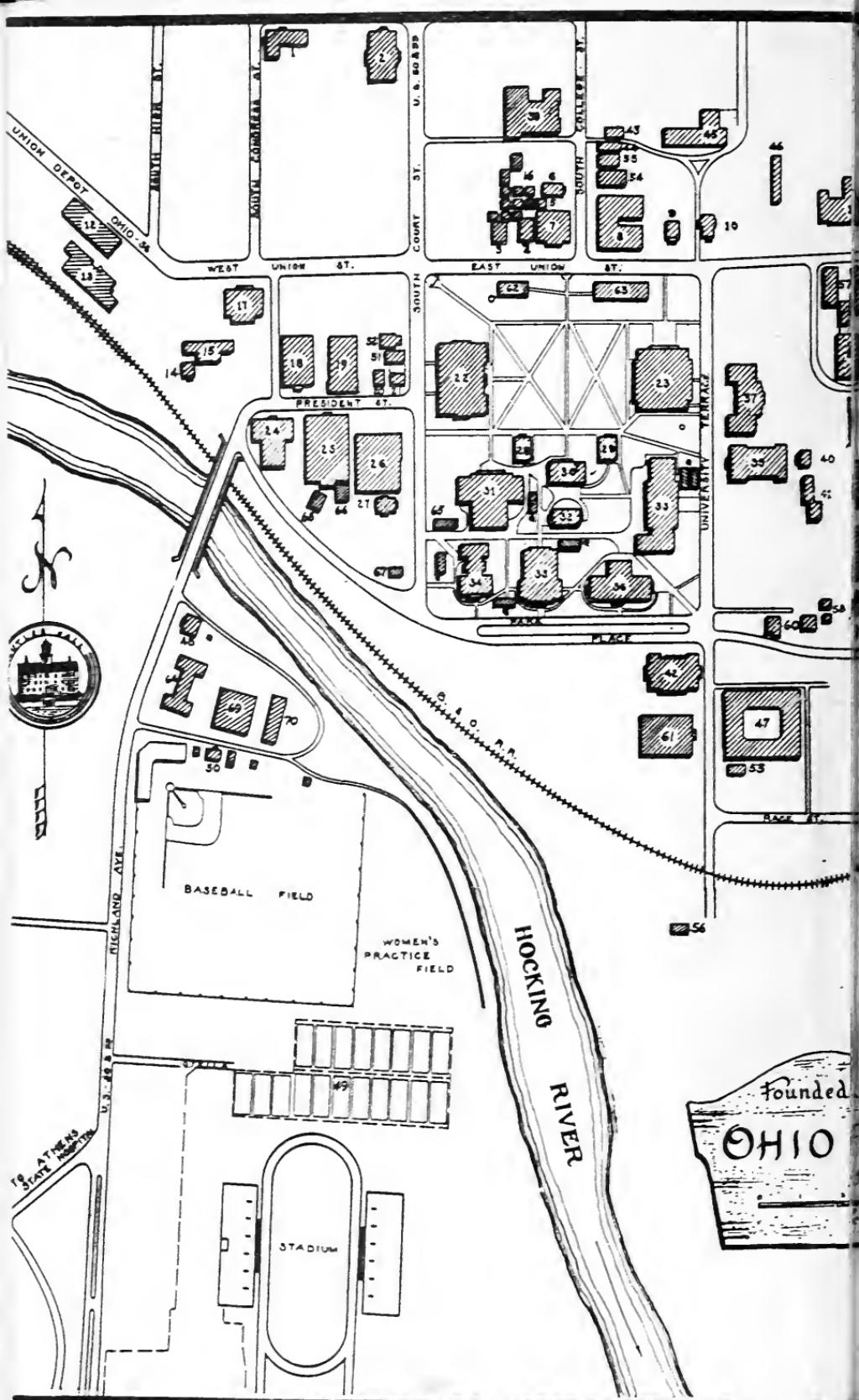
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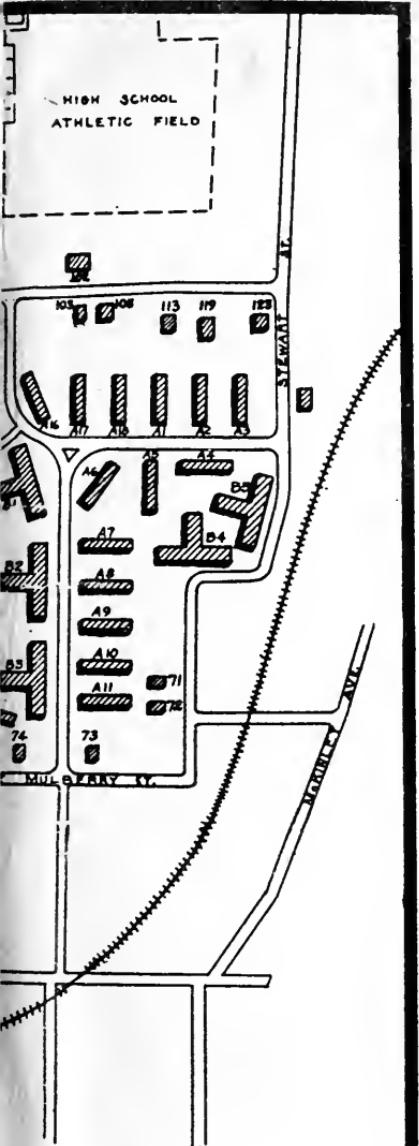
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of pictures in Bulletin*





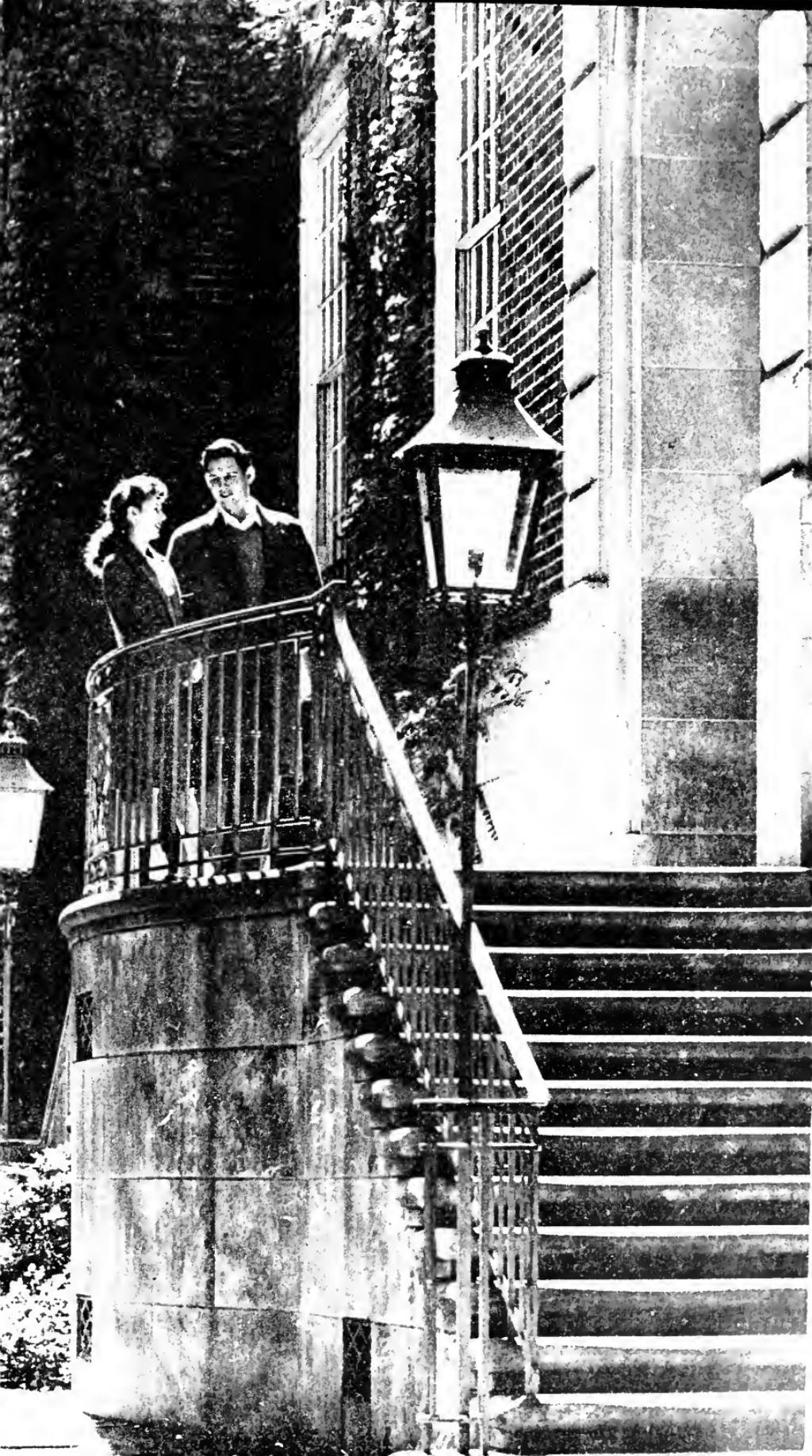
KEY TO MAP

1. Palmer Hall
2. Athens County Courthouse
3. O'Bleness Cottage
4. McVay Cottage
5. Student Center Building Annex
6. Women's Faculty Club
7. Student Center Building
8. Howard Hall
9. President's Home
10. Home Economics Practice House
11. University Elementary School
12. Service Building
13. Heating Plant
14. Laundry
15. Engineering Building
16. Veteran's Village
17. U.S. Post Office
18. Science Hall
19. Chemistry Building
20. President Street Cottage
21. Court Cottage
22. Chubb Library
23. Memorial Auditorium
24. Super Hall
25. Men's Gymnasium
26. Lindley Hall
27. Slattery Cottage
28. McGuffey Hall
29. Wilson Hall
30. Cutler Hall
31. Ewing Hall
32. Hall of Fine Arts
33. Ellis Hall
34. Carnegie Hall
35. Women's Gymnasium
36. Boyd Hall
37. Bryan Hall
38. Speech Building
39. Agricultural Building
40. Welch Cottage
41. Green House
42. Music Hall
43. Shannon Cottage
44. Williams Cottage
45. Student Health Center
46. Putnam Apartments
47. Scott Quadrangle
48. Animal Building
49. Tennis Courts
50. Caretakers' Residences
51. Legion Apartments
52. Sloane Cottage
53. Kahler Cottage
54. Preston Cottage
55. Beckley Cottage
56. Dana Cottage
57. Edgehill Apartments
58. Steel-Craft Buildings
59. Cafeteria
60. Matthews Cottages
61. Natatorium
62. Temporary Office Building
63. Recreation Hall
64. Engineering Annex
65. Ewing Annex
- A-1 to 18 and B-1 to 5—Temporary Dormitories for Men



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THE UNIVERSITY CALENDAR FOR 1950-1951

THE 1950 SUMMER SCHOOL

(THE EIGHT-WEEK SESSION)

1950		
June 19	Mon.	Session opens; advising, counseling and registration of students
June 20	Tues.	Classes begin
June 26	Mon.	Last day for registering for the session
June 28	Wed.	Last day for adding course by change order
July 1	Sat.	Last day for students in eight-week session to file application for graduation on August 12 or at close of post session Last day for graduate student to be approved for admission to candidacy for degree
July 3	Mon.	Holiday
July 4	Tues.	Holiday
July 5	Wed.	Last day for graduate student to take comprehensive examination
July 8	Sat.	Last day for partial refund of fees to students who withdraw
July 15	Sat.	Last day to withdraw from class with "W"
July 31 to Aug. 5	Mon. Sat.	Last day to withdraw from class with "W" Registration for post session by students enrolled in eight-week session
Aug. 5	Sat.	Last day to obtain change order to withdraw from a course Last day for graduate student to take oral examination on thesis
Aug. 7	Mon.	Masters' theses due in library
Aug. 9	Wed.	Candidates' grades due in Registrar's office, 4:00 p.m.
Aug. 11	Fri.	Last day of classes. Final examinations, except for candidates for graduation, during the last scheduled class meeting
Aug. 12	Sat.	Session closes; commencement

(THE POST SESSION)

Aug. 14	Mon.	Session opens; registration in morning; classes begin in afternoon
Aug. 15	Tues.	Last day to register for the session Last day to file application for graduation at the close of the session
Aug. 19	Sat.	Last day for partial refund of fees to students who withdraw
Sept. 1	Fri.	Three-week courses end. Final examination during the last scheduled class meeting

OHIO UNIVERSITY

Sept. 8	Fri.	Four-week courses end
Sept. 15	Fri.	Five-week courses end
Sept. 22	Fri.	Six-week courses end

FIRST SEMESTER

Sept. 18	Mon.	Semester opens Consult schedule of classes for counseling, advising and registration dates
Sept. 25	Mon.	Classes begin
Oct. 2	Mon.	Last day for registering for the semester Last day for graduate student to be approved for admission to candidacy for degree
Oct. 7	Sat.	Last day for adding course by change order
Oct. 9	Mon.	Last day for filing application for graduation on February 3
Oct. 23 to	Mon.	
Nov. 11	Sat.	Speech proficiency tests
Oct. 26	Thur.	English proficiency test in evening
Oct. 28	Sat.	Homecoming, classes adjourned Last day for removing incomplete grade incurred during last session in residence Last day for partial refund of fees to students who withdraw
Nov. 3	Fri.	University College seven-weeks grades due in University College office
Nov. 6 to	Mon.	
Nov. 11	Sat.	Counseling period for University College students
Nov. 11	Sat.	Last day to withdraw from a course with "W"
Nov. 22	Wed.	Thanksgiving recess begins at 12:00 noon Mid-semester reports of low standing due in Registrar's office
Nov. 27	Mon.	Classes resume at 12:00 noon
Dec. 8	Fri.	University College twelve-weeks grades due in University College office
Dec. 11 to	Mon.	
Dec. 16	Sat.	Counseling period for University College students
Dec. 16	Sat.	Christmas recess begins at 12:00 noon
1951		
Jan. 3	Wed.	Classes resume at 8:00 a.m. Last day for graduate student to take comprehensive examination
Jan. 6	Sat.	Last day to obtain change order to withdraw from a course
Jan. 26	Fri.	Final examinations begin
Jan. 27	Sat.	Last day for graduate student to take oral examination on thesis

Jan. 29	Mon.	Masters' theses due in library
Jan. 31	Wed.	Candidates' grades due in Registrar's office, 4:00 p.m.
Feb. 1	Thur.	Final examinations end
Feb. 3	Sat.	Semester closes; commencement

SECOND SEMESTER

Feb. 5	Mon.	Semester opens Consult schedule of classes for counseling, advising and registration dates
Feb. 9	Fri.	Classes begin
Feb. 19	Mon.	Last day for registering for the semester Last day for graduate student to be approved for admission to candidacy for degree
Feb. 24	Sat.	Last day for adding course by change order
Feb. 26	Mon.	Last day for filing application for graduation on June 10
Mar. 12 to Mar. 31	Mon.	Speech proficiency tests
Mar. 17	Sat.	Last day for removing incomplete grades incurred during last session in residence Last day for partial refund of fees for students who withdraw
Mar. 22	Thur.	English proficiency test in evening
Mar. 23	Fri.	University College seven-weeks grades due in University College office
Mar. 24	Sat.	Spring recess begins at 12:00 noon
April 2	Mon.	Classes resume at 8:00 a.m.
April 2 to April 7	Mon.	
April 7	Sat.	Counseling period for University College students
April 7	Sat.	Last day to withdraw from a course with "W" Mid-semester report of low standing due in Registrar's office
May 4	Fri.	University College thirteen-weeks grades due in University College office
May 7 to May 12	Mon.	
May 12	Sat.	Counseling period for University College students
May 10	Thur.	Last day for graduate student to take comprehensive examination
May 19	Sat.	Last day to obtain a change order to withdraw from a course
May 30	Wed.	Memorial Day, a holiday
June 1	Fri.	Final examinations begin
June 2	Sat.	Last day for graduate student to take oral examination on thesis
June 5	Tues.	Masters' theses due in library
June 6	Wed.	Candidates' grades due in Registrar's office, 4:00 p.m.
June 7	Thur.	Final examinations end
June 10	Sun.	Semester closes; commencement

GENERAL INFORMATION

Ohio University Today

Services to Students

- Admissions
- Orientation
- Housing and Food Service
- University Health Service
- Counseling
- Financial Aid
- Scholarships
- Prizes and Awards
- Loan Funds
- Clinics
- Veterans Affairs
- Students from Abroad

Student Activities and Organizations

- Student Government
- Publications
- Dramatics
- Music
- Religious
- Scholastic and Social

Cultural and Recreational Advantages

- Bureau of Appointments
- Alumni Office
- Public Service Departments
- Ohio University Fund, Inc.

GENERAL INFORMATION

OHIO UNIVERSITY TODAY

Ohio University was founded and conducted during the early years of its existence as a college devoted to the arts and sciences. It remained a liberal arts college throughout the nineteenth century with only gradual expansion and few changes in policy. By the turn of the century, however, a growing need for teachers called for a professional educational program. In 1902, the University was expanded to include a college for the training of teachers. Meanwhile, the general tendency for higher education in many fields had been definitely manifesting itself in increased enrollment and the demand for a broader curriculum. This was particularly noted in the fields of electrical engineering and commerce which had been introduced in the College of Arts as early as 1890 and 1893 without perceptible effect upon the organization of the University.

In the years of constant growth that followed, the University at all times endeavored to keep pace with the growing need, until it became evident that the traditional division into a College of Liberal Arts and a College of Education no longer represented the curricula offered in the University. In the autumn of 1935, the University College was established as an aid to freshmen in making the difficult adjustment from high school to college. Further reorganization has followed in accord with the enlarged offerings until at present the University is composed of the following colleges and other major units:

The University College
The College of Applied Science
 The School of Home Economics
The College of Arts and Sciences
The College of Commerce
 The School of Journalism
The College of Education
The College of Fine Arts
 The School of Dramatic Art and Speech
 The School of Music
 The School of Painting and Allied Arts
The Graduate College
The Division of Physical Education and Athletics
The Reserve Officers' Training Corps Division
The University Extension Division
The Summer School
The Branches

Students are currently enrolled from all but one of the counties of Ohio, from 31 states, two territories, and the District of Columbia, and from 27 foreign countries.

The University is regarded by many as being of ideal size; not so large that one finds it difficult to establish close social and classroom contacts, nor yet so small that one is deprived of opportunities for a well-rounded program of extracurricular activities.

From a two-room, two-story brick building and an opening-day student body of three men, Ohio University has grown until at the opening of the last school year its 32 principal buildings and 43 auxiliary buildings housed an enrollment of approximately 5,200 students. These students were taught by a faculty of some 350 members, not including graduate fellows and assistants.

HISTORICAL BACKGROUND OF THE UNIVERSITY

The Ordinance of 1787, a measure for the government of the Northwest Territory which many historians rank in importance with the Declaration of Independence and the Constitution of the United States, declared that "the means of education shall forever be encouraged."

In the land purchase contract negotiated by the Ohio Company of Associates with Congress just two weeks after passage of this famous ordinance, Congress reserved two complete townships of land for the purposes of "an university," to be located in the center of the purchase.

Late in 1799, General Rufus Putnam, of Rutland, Massachusetts, laid out the town of Athens and the campus for the University.

On January 2, 1802, the General Assembly of the Northwest Territory passed an act establishing the "American Western University." Nothing was done under this act. Two years later, Ohio, meanwhile, having come into statehood, the territorial act was re-enacted, with little change, by the State Legislature in the act of February 18, 1804, establishing the "Ohio University." The latter date is recognized as the founding date of the University.

Ohio University thus became the first institution of higher learning in the Northwest Territory, an area from which was ultimately carved five great states—Ohio, Indiana, Illinois, Michigan, and Wisconsin.

Although general authorship of the Ordinance of 1787 is credited to Thomas Jefferson, it is well known that the Rev. Dr. Manasseh Cutler, of Ipswich, Massachusetts, who represented the Ohio Company in its negotiations with the Continental Congress, insisted the ordinance be so drawn as to guarantee freedom of speech, thought, and religious opinions, as well as to exclude slavery from the territory and to commit the governments of the new states to the support of schools.

Manasseh Cutler, for whom Cutler Hall was named, drew up the charter of the University and outlined its first curriculum. He and Rufus Putnam, for whom another campus building was named, are regarded as the founders of Ohio University.

CLASSIFICATION AND LOCATION

Ohio University is a coeducational, state-supported university located in scenic Southeastern Ohio.

The city of Athens, seat of the University, has a population of approximately 8,000. Neither large nor extremely small, the city exists chiefly because of the University and for its welfare. The relations between its citizens and the members of the university community are, therefore, markedly cordial.

Free from the distractions of a metropolitan center, Athens offers many advantages to the person who desires to pursue university work in an atmosphere of culture and relative quiet.

Athens is conveniently accessible by automobile on U. S. Routes 33 and 50 and State Route 56. The city is served by the New York Central and Baltimore and Ohio railroads. North and south bus service is provided by the Lake Shore System; east and west service, by the Capital Greyhound Lines. Airplane connections with Cleveland, Columbus, Cincinnati, Pittsburgh and other air centers are available through a local air service.

DEGREES GRANTED

Ohio University offers both undergraduate and graduate courses of study.

The following degrees are granted upon the satisfactory completion of four-year study programs (less time under an accelerated program): Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Science, Bachelor of Science in Agriculture, Bachelor of Science in Architectural Engineering, Bachelor of Science in Chemistry, Bachelor of Science in Civil Engineering, Bachelor of Science in Commerce, Bachelor of Science in Education, Bachelor of Science in Electrical Engineering, Bachelor of Science in Home Economics, Bachelor of Science in Industrial Engineering, Bachelor of Science in Journalism, Bachelor of Science in Mechanical Engineering, and Bachelor of Science in Secretarial Studies.

The Master of Arts, Master of Education, Master of Fine Arts, and Master of Science degrees are granted upon completion of a Graduate College program covering a period of, normally, one year (two semesters) or four summer sessions.

THE SESSIONS

The sessions of the University consist of two eighteen-week semesters and a summer school. The summer school consists of two sessions: a regular eight-week session, and a three-week post session.

The eight-week session of the 1950 Summer School will open on June 19 and close with commencement exercises on August 12. It will be followed by a post summer session, opening on August 14 and closing, for most students, on September 1.

The first semester of the 1950-1951 school year will open on September 18, 1950, and close on February 3, 1951. The second semester will open on February 5 and close with formal commencement exercises on June 10, 1951. See University Calendar on page 4.

BUILDINGS AND GROUNDS

Ohio University's physical plant, consisting of 32 principal buildings, 43 auxiliary buildings, and 84 acres of land, is valued at more than \$12,500,000. This does not include the 43 temporary dormitories and dwelling units erected for the housing of veterans and veterans' families, nor the Ohio University Airport of 95 acres or the University Farm of 393 acres.

THE GREEN

The Campus or "College Green" was laid out from time to time between 1800 and 1804 in compliance with the terms of a Resolution of the General Assembly of the Territory of Ohio passed in 1799. It now differs materially from its original plan, changes and enlargements having been made at various times between 1813 and 1844, and in comparatively recent years.

The Green now comprises a relatively small part of the land holdings of the University, and a majority of the university buildings are to be found off the campus, although near it.

On the Green, the present boundaries of which were fixed in 1844, are located 11 buildings and two memorial gateways.

MANASSEH CUTLER HALL (30*), the oldest building in the Northwest Territory erected for the purposes of higher education, was known in its early days as "The College Edifice" and later as the Center Building. It was given its present name for one of the founders of the University. Its construction was begun in 1816 and completed in 1818. Cutler Hall and the nearby "Wings," of similar style, comprise an interesting unit of early American architecture. In 1888, the building was remodeled, many changes, both internal and external, being made. A recent remodeling has restored the historic structure to its early-day appearance.

On the first floor of Cutler Hall are to be found the offices of the President of the University, the Assistant to the President, the Dean of the College of Arts and Sciences and the Graduate College, and the Director of Admissions and University Examiner. On the second floor are the offices of the Dean of the University College, the Dean of the College of Education, and the Dean of the College of Fine Arts. The offices of the Director of University Extension; the Director of Off-Campus Rela-

*See map and key in front of catalog.

tions, the Bureau of Appointments, and the University Branches; the Director of Press Relations; and the Alumni Secretary and University Editor are on the third floor.

WILSON HALL (29) was erected in 1837 and for more than a century was known as East Wing. It was renamed, September 23, 1939, in honor of Robert G. Wilson, third president of the University. The Service Bureau, the office of the Ohio University Fund, Inc., and the Department of Philosophy are in this building.

McGUFFEY HALL (28), originally known as West Wing, was erected in 1839. It is identical with Wilson Hall in the unit of three old buildings. It was renamed, September 23, 1939, in honor of William H. McGuffey, fourth president of the University and author of the "Readers" that bear his name. In McGuffey Hall are the offices of the Dean of Men, the Dean of Women, the Director of Student Housing, the Auditor of Student Funds, the Director of Residence Services; conference rooms, and Y.W.C.A. rooms.

The EDWIN WATTS CHUBB LIBRARY (22), erected in 1930, was named in honor of a former dean of the College of Arts and Sciences, who, also, has twice been an acting president of the University.

The ALUMNI MEMORIAL AUDITORIUM (23) was made possible by the contributions of alumni and friends of Ohio University and by a special appropriation of the Ohio Legislature. It has a seating capacity of 2,811.

EWING HALL (31), named in honor of Thomas Ewing, first graduate of the University, contains the offices of the Registrar, the Treasurer, the Business Manager, the Personnel Director, and the Supervising Engineer of the University; the office of the Dean and the classrooms of the College of Commerce; the office of the Director and the classrooms of the School of Journalism; and an auditorium seating several hundred persons.

ELLIS HALL (33), named for Alston Ellis, tenth president of the University, was the first building erected by the State of Ohio for the purpose of training teachers. In it will be found the Departments of Classical Languages, Economics, English, Geography and Geology, German, Government, History, Romance Languages, and Sociology; the office of the Director and many of the classrooms and studios of the School of Painting and Allied Arts; and some of the classrooms of the College of Education.

The HALL OF FINE ARTS (32) is an ivy-covered building once known as the "Old Chapel." This building is now occupied by the Departments of Architecture and Photography.

In CARNEGIE HALL (34) are the headquarters and classrooms of the R.O.T.C. Division, and the Departments of Astronomy, Mathematics, and Psychology. In this building, also, are the offices of the Supervisor of the University Testing and Vocational Counseling Service and the Veterans Administration Vocational Appraiser.

The WOMEN'S GYMNASIUM (35) contains a swimming pool and is headquarters for the Women's Recreation Association.

BOYD HALL (36) is a residence hall for women students. It was named for Miss Margaret Boyd, of the Class of 1873, first woman graduate of Ohio University.

The remaining buildings on The Green are a TEMPORARY OFFICE BUILDING (62) and a TEMPORARY RECREATION HALL (63).

At the northwest corner of The Green is the ALUMNI GATEWAY, erected in 1915 by the alumni of the University on the one-hundredth anniversary of the first graduating class. The CLASS OF 1912 GATEWAY, opposite the Student Center, was a class gift. Two drinking fountains, one a gift of the Class of 1911 and the other a gift of the Class of 1948, are located, respectively, at the rear of Cutler Hall and at the intersection of two principal walks near the Alumni Gateway.

Noted for their size, beauty, and traditional interest are the "McGUFFEY ELMS," a row of trees extending across the entire front of The Green, which was planted by William Holmes McGuffey during his presidency. The trees are now well over 100 years old.

Most of the other university buildings are located on streets adjacent to or leading from The Green.

ON EAST UNION STREET, north boundary of The Green, are the STUDENT CENTER (7), which serves as an activity center for students and also provides temporary quarters for the Director and many of the classrooms and laboratories of the School of Dramatic Art and Speech; HOWARD HALL (8), a residence hall for women, named for Solomon Howard, sixth president of Ohio University; the PRESIDENT'S HOME (9); the HOME ECONOMICS MANAGEMENT HOUSE (10); and the UNIVERSITY ELEMENTARY SCHOOL (11), a laboratory school for the training of teachers.

Also on this street are O'BLENESS COTTAGE (3), MCVAY COTTAGE (4), and the EAST UNION STREET COTTAGES (102, 103, 105, 113, 119, and 123), all residential units for students.

The STUDENT HEALTH CENTER (45) is located at the rear of university buildings fronting on East Union and South College streets and may be reached from either street. For a more detailed reference to the Health Center and its services, see page 20.

ON UNIVERSITY TERRACE, immediately east of The Green, is BRYAN HALL (37), a residence hall for women students, named for Elmer Burritt Bryan, eleventh president of Ohio University; the AGRICULTURE AND HOUSEHOLD ARTS BUILDING (39), which houses the office of the Director and the classrooms and laboratories of the School of Home Economics, and the Departments of Agriculture and Botany. WELCH COTTAGE (40), a residential unit for women, and the UNIVERSITY GREENHOUSE (41) are at the rear of the "Ag" Building.

Also on University Terrace, southeast of The Green, is SCOTT QUADRANGLE (47), formerly known as the Men's Dormitory, named for William Henry Scott, seventh president of the University; and the NATATORIUM (61). Not far away are KAHLER COTTAGE (53), the MATTHEWS COTTAGES (60), and DANA COTTAGE (56), used for the accommodation of women students.

Scott Quadrangle is composed of eight units—Atkinson, Bentley, Copeland, Dana, Dunkle, Evans, Gordy, and Hoover halls—which were named for former members of the Ohio University faculty, all now deceased.

For an additional reference to the Natatorium, see page 45.

ON PARK PLACE, south boundary of The Green, is MUSIC HALL (42), a building in which are located the office of the Director and the studios, classrooms, and auditorium of the School of Music.

ON SOUTH COURT STREET, west boundary of The Green, are LINDLEY HALL (26), a residence hall for women, named for Jacob Lindley, Ohio University's first president; COURT COTTAGE (21), SLATTERY COTTAGE (27), and SLOANE COTTAGE (52), student residential units; and the LEGION APARTMENTS (51), now occupied by married veterans and by faculty members.

ON PRESIDENT STREET, west of The Green, are to be found the MEN'S GYMNASIUM (25), with the offices of the Director of the Division of Physical Education and Athletics; SUPER HALL (24), housing the Departments of Industrial Arts, Physics, and Printing Administration; SCIENCE HALL (18), housing the Department of Zoology; the ENGINEERING BUILDING (15), housing the office of the Dean of the College of Applied Science and the Departments of Electrical Engineering and Mechanical Engineering, and some of the Department of Civil Engineering; and the CHEMISTRY BUILDING (19). SUPER HALL was named for Charles W. Super, eighth president of the University.

Also, on President Street are the UNIVERSITY LAUNDRY (14) and PRESIDENT STREET COTTAGE (20).

ON RICHLAND AVENUE, across the South Bridge are the ENGINEERING ANNEX BUILDING (64), housing the Department of Engineering Drawing, part of the Department of Civil Engineering, and the University Mail Room; the ANIMAL HOUSE (48); the INTERNAL COMBUSTION ENGINE LABORATORY and WAREHOUSE (69); and the UNIVERSITY GARAGE (70).

ON COLLEGE STREET, a street running north and south from The Green, will be found the STUDENT CENTER BUILDING ANNEX (5), containing apartments for veterans; the WOMEN'S FACULTY CLUB (6); the SPEECH BUILDING (38), housing the office of the Director of the School of Dramatic Art and Speech, classrooms and clinical laboratories of the Departments of Speech and Speech Correction, a "Little Theatre," and the university radio station WOUI—AM and FM.

On College Street, also, are PRESTON COTTAGE (54), BECKLEY COTTAGE (55), and WILLIAMS COTTAGE (44), residential units for women students; and SHANNON COTTAGE (43), the university guest house.

PALMER HALL (1) is a university-leased residence hall for men located on the corner of South Congress and West Washington streets.

The UNIVERSITY SERVICE BUILDING (12) and the HEATING PLANT (18) are located on West Union Street.

The ASTRONOMICAL OBSERVATORY, not shown on the map, is situated on North Hill about a mile from the University. The telescope, a reflector type with a 20-inch aperture, was presented to the University in 1936 by Professor A. H. Carpenter, retired, of Illinois Institute of Technology, an alumnus of the University.

EAST GREEN

The East Green, to the east of the main campus (see map), has been developed with the aid of the Federal Public Housing Administration. On it have been constructed 23 TEMPORARY DORMITORIES (A-1 to 18 and B-1 to 5) for housing a total of 593 single men. The CAFETERIA (59) is large enough to accommodate all of the men living on the East Green.

The EDGEHILL APARTMENTS (57), located on the East Green, are occupied by members of the faculty, while two STEEL-CRAFT BUILDINGS (58) also serve as temporary quarters for faculty members.

New and permanent-type buildings are contemplated for this area in the long-range building plan of the University.

ATHLETIC FIELDS

The Athletic Fields, comprising 50 acres, are located across the Hocking River on the east side of Richland Avenue. There is an excellent baseball field; Ohio Stadium, seating 14,000 persons, with a football gridiron and running track; intramural fields; tennis courts (49) and practice fields.

UNIVERSITY AIRPORT

The Ohio University Airport of 95 acres is located approximately two miles from the campus on U.S. Route 50, east of Athens. The field has a runway 4,000 feet in length, four hangars, and an administration building. The hangars provide space for plane storage, a repair station, a Link Trainer room, and a pilot's ready room. The field is equipped with temporary runway lights for night flying.

UNIVERSITY FARM

The University Farm of 394 acres is located on U.S. Route 50, nine miles southwest of Athens. Laboratory and demonstrations are carried on with crops (primarily grain and feed) and with livestock (dairy and beef cattle, hogs, and poultry). On the farm are two homes, four barns, poultry houses, and numerous small buildings.

SERVICES TO STUDENTS**ADMISSIONS**

Services to students begin with the first correspondence with those who are interested in applying for admission to Ohio University and continue beyond graduation through the Bureau of Appointments and the Alumni Office.

Pre-admissions information is provided in detail under "Admission Regulations," beginning on page 52, as well as a full description of how to make application for admission. This information is also often made available through the guidance services of the high schools and through visits of Ohio University representatives in the high schools.

ORIENTATION

Special provision is made at Ohio University to help new students to make the most of the resources available to them. Through the University College the student is given an opportunity during the first week on campus to learn essential facts about the University which he will soon find helpful to him; to receive attention to his own individual educational program by means of a testing program and faculty counseling. Information concerning the guidance of first-year students is to be found in detail under the "University College."

Orientation is further provided to new students through their housing units. Women's residence halls have a special program whereby trained senior students assist hall counselors in helping students to improve habits of study and to make adjustments to the group life of the residence hall.

HOUSING AND FOOD SERVICE

The cost of board in university dining halls is \$144 a semester for women and \$162 a semester for men. Board rates are subject to revision, upward or downward, in accordance with prevailing economic conditions.

The majority of rooms in university residence halls and cottages rent at \$54 a semester for each student. As a result of the postwar housing emergency the capacity of each room has been increased to the maximum commensurate with the equipment.

Rooms in all residence halls are furnished with dressers, study tables, chairs, beds, and bed linen. The University provides for the laundering of the bed linen. Window draperies, lamps, blankets, and other furnishings may be supplied by the student.

Board and room fees are payable in full at the office of the University Treasurer during the first week of the semester, but arrangements may be made to pay by installments, if necessary.

See, also, "Expense Estimate" on page 61.

Cancellations and Refunds. Cancellation of room reservations must be requested by July 15, for the first semester, and by January 10, for the second semester.

Refund, in full, of the advance room deposit will not be made to a person who does not register at Ohio University or who fails to occupy assigned quarters, unless the room can be re-rented by the end of the first week of a semester.

A student withdrawing from the University or moving off campus will be refunded the unused portion of his room rental payment, provided his quarters can be re-rented. The refund will be equal to the amount of room rent collected from the person newly assigned. Vacancies will be filled in the order in which they occur.

A refund is made of the unused portion of the board payment.

Any student who leaves within the semester and is entitled to a room or board refund must request the refund not later than three months after the end of the semester in which he left.

The living accommodations of all men and women in the University are under the general supervision of the Dean of Men and the Dean of Women, respectively.

WOMEN. There are four residence halls and seven university-owned cottages for women. The residence halls are Boyd Hall, Howard Hall, Lindley Hall, and Bryan Hall.

Dining Arrangements. Residents in halls are required to eat in the residence hall in which they are living. Women living in university cottages are also required to eat in an assigned residence hall dining room. Exemptions from the latter requirement are granted to residents of Athens, commuters, and students working outside the residence halls for room and board. Requests for exemptions are passed upon by the Dean of Women.

Upper-class women living in private homes may arrange to eat in residence hall dining rooms at any time during the semester, but must continue with such arrangements until the end of the semester, unless special permission to withdraw is granted by the Dean of Women and the Director of Residence Services.

Each dining room in the residence hall system is under the management of a competent dietitian who serves as a member of the staff of the Director of Residence Services.

Applications. Applications for rooms in the women's residence halls and cottages should be made to the Dean of Women, Ohio University, Athens, Ohio. An application is considered only if accompanied by a \$5 retaining fee made payable to the STUDENTS' GENERAL FUND, OHIO UNIVERSITY. The retaining fee is applied to the social fund of the residence halls.

Following the assignment of a woman student to a place in a residence hall, a \$54 advance room payment is required. The deadline for receipt of this payment will be indicated in the assignment letter.

In addition to the rental fee, each member of a residence hall for women pays a personal service fee of \$4.50 a semester. There is a \$1 key deposit which is refunded upon return of the key when the room is vacated.

MEN. The facilities for men comprise one large residence hall, several cottages, and a number of temporary housing units.

Scott Quadrangle, formerly known as the Men's Dormitory, is composed of eight units—Atkinson, Bentley, Copeland, Dana, Dunkle, Evans, Gordy, and Hoover halls.

Twenty-three temporary dormitories for men have been constructed on the East Green, less than one block from the main campus. There is a cafeteria large enough to accommodate all of the men living in these units.

Applications. Applications for rooms for men should be made to the Director of Student Housing, Ohio University, Athens, Ohio. An application will be considered only if accompanied by two checks, one made payable to the STUDENTS' GENERAL FUND, OHIO UNIVERSITY for \$2.50, and one to OHIO UNIVERSITY for \$54. The \$2.50 check covers the required social fund fee for one semester. The \$54 pays the room rent for a full semester for the majority of rooms.

Residents of Scott Quadrangle are also assessed a special fee of \$3 to cover telephone and mail services. There is a \$1 key deposit which is refunded upon returning the key when the room is vacated.

Residents in all university housing accommodations for men, with the exception of Palmer Hall, are required to eat in university dining halls. The current charge for board is \$9 a week.

HOUSING FOR MARRIED STUDENTS

Veterans' Village located in the rear of the Student Center Building is comprised of 8 pre-fabricated units which accommodate 16 families. Twenty-three of the same type of units, housing 46 families, are located on East State Street, near the University Airport. The rent for each unit is \$23 a month, payable in advance.

Each family unit is complete within itself; is compact, efficient, and quite livable.

In addition to Veterans' Village, the University has 112 apartment units located on East State Street, approximately two miles from The Green. Each of these apartments has a living room, bedroom, kitchen, and bathroom with an abundance of closet space. None of the apartments is completely furnished. Tenants must arrange to supply the needed articles. The rent for each apartment is \$33 a month, payable in advance.

Convenient bus service is maintained by the University at no cost to the occupants of the "pre-fab" units and the apartments.

For further information concerning quarters for married students write to the Director of Student Housing, Ohio University, Athens, Ohio.

TRAILER PARK

The University Trailer Park, which will accommodate 33 privately-owned house trailers, is located on East State Street adjacent to the University Airport. Space rental for trailer is \$7.50 a month, which includes water and sewage. Excellent toilet, bathing, and laundry facilities are provided for all trailer occupants. The rental charge does not cover electricity. Free bus transportation to the campus is provided by the University.

ROOMS IN PRIVATE HOMES

Rooms in private homes are listed in the offices of the Director of Student Housing and the Dean of Women. Rooms for women are not listed until they have been inspected and approved by the Director of Off-Campus Housing.

The price of a double room varies from \$3 to \$5 a week for each student. Single rooms vary in price from \$4 to \$6 a week.

Although the University assumes no responsibility in the matter, a student renting a room in a private home is expected to remain in the home for one semester unless satisfactory arrangements are made with the householder.

FRATERNITIES AND SORORITIES

Fifteen social fraternities and nine social sororities maintain homes near the campus in which residence and dining facilities are available to members.

UNIVERSITY HEALTH SERVICE

The Student Health Service moved into the new Health Center during the Christmas vacation, 1949. This new brick building of four stories stands behind Howard Hall and can be reached from Union and College streets. The combined cost of building and equipment was more than \$500,000. A complete clinic with X-ray and minor surgery occupies the first floor, an infirmary of forty beds with an isolation wing occupies the second floor, and the nurses' quarters are on the third floor. There is a physiotherapy department in the basement, and the accent on preventive medicine and health education is emphasized by the addition of an auditorium for health films and lectures.

The Health Service maintains a continuous record of each student's health, beginning with the family physician's report which is required on admission. A tuberculin skin test is given each freshman along with his chest X-ray, and the X-ray is repeated before he graduates. Since tuberculosis is a particular hazard in the college age-group, a special effort is made to detect early cases and protect the college community. The Director of the Health Service in this, as in all other respects, has authority to take steps to prevent the spread of communicable diseases and to maintain standards of sanitation on the campus.

The Health Service staff comprises four full-time doctors and ten registered nurses. A health fee of \$7.50 a semester entitles the student to the following:

1. *Clinic.* This ambulant or outpatient service is open from 8 a.m. to 5 p.m., except Saturdays when the hours are 10 a.m. to 12 noon. The Clinic is closed on Sundays and holidays.

In the twelve months ending May 31, 1949, over 35,000 outpatient treatments were given.

2. *Infirmary.* This is the bed, or inpatient, service located on the second floor of the Health Center. Here the space is broken up into rooms accommodating one, two, and three patients, and there is an isolation wing with five rooms. Each student is entitled to infirmary care, subject to the judgment of the doctors. The daily visiting hour is from 2 to 3 p.m. and the number of visitors at any one time is limited to two per patient. During epidemics the visiting hour may be suspended.

In the twelve months ending May 31, 1949, a total of 799 patients were admitted to the infirmary and these remained a total of 2,096 days, an average of 2.6 days per patient.

3. *Emergency Service.* When the Clinic closes at 5 p.m. the main door is locked. Throughout the evening and night a nurse remains on duty, and a doctor is on call to care for emergencies. Admission can be gained by ambulance or car at the east entrance of the Health Center, or on foot at the west entrance where there is an illuminated night bell. This service is for emergencies only, and is not intended to be an extension of the daytime Clinic.

The university physicians do not make outside calls except in extreme emergency, and then only when called by a housemother, student dean, or other responsible person. The accessibility of the Health Center to all parts of the campus is one of its conspicuous features.

4. *Consultations.* Specialists in eye, ear, nose, throat, major surgery, and psychiatry are available in Athens, and consultations, obtained at the discretion of the Director, are at the expense of the Health Service. The student is responsible for any expense beyond first consultation. The Health Service does not assume any of the cost of glasses or dental care; students are expected to have these matters attended to at home. The Health Service fee does not include the cost of major surgery. The Health Center is not equipped to care for such cases, and they are therefore transferred to their homes or to the local (Athens) hospital. Students' families are urged to carry comprehensive medical insurance.

5. *Diagnosis and Medicines.* The Health Center is equipped with full diagnostic service, such as clinical laboratory, metabolism tester, and X-ray. No charge is made for any of these tests. Medicines are also dispensed without extra charge, except in certain chronic cases. Needless to say, the doctor must be the judge as to what tests and what medications are required in any given case.

EXCUSES. A student who has been a patient in the clinic or infirmary will be given a signed statement to be presented to his individual professors. Anyone absenting himself from class on his own initiative is responsible for his own excuse. A student, therefore, who feels unwell is wise to report to the Health Center at the earliest opportunity.

ADAPTED ACTIVITIES. All students are expected to meet the minimum physical education requirements in the freshman and sophomore years. Those with physical disabilities are assigned by the Health Service physicians to suitable adapted activities in the Division of Physical Education.

VACCINATION. New students, whether freshmen or transfers, must present evidence of vaccination against smallpox within the past five years, before being admitted to Ohio University. A blank certificate giving detailed instruction is sent to each applicant for admission and must be returned to the Registrar properly completed and signed.

See, also, "Della Hixson Health Service Fund" on page 33.

COUNSELING

EDUCATIONAL COUNSELING. Educational counseling is a special responsibility of faculty advisers who provide students with educational guidance in course planning and schedule making. Students are encouraged to make use of faculty advisers.

GENERAL COUNSELING. General counseling is a special concern of the Dean of Men and the Dean of Women and their associates in their offices in McGuffey Hall. Through student activities and organizations

and the housing program these persons are in close touch with student life. Problems as a normal part of educational development are often personal in nature; e.g., meeting financial needs, getting along with people, making vocational choices. The offices of the Dean of Men and Dean of Women provide students with resources for helping themselves when confronted with perplexities beyond their own immediate resources. The Dean of Men and the Dean of Women work in close relationship with all other services in the University which are concerned with the welfare of students.

TESTING AND VOCATIONAL COUNSELING. Tests for all new students are administered, scored, and reported to the administrative officers. Students, counselors, and advisers may secure the results of such tests by inquiring at the University Testing and Vocational Counseling Service, Room 203, Carnegie Hall.

Additional tests and other diagnostic devices are administered if requested by a faculty member, counselor, adviser, administrative officer, or by a student in conference with the Supervisor of Testing Service.

Complete counseling service is available to selected students. Such service is based on a careful survey of aptitudes, abilities, interests, and achievements in various fields. Suitable educational and occupational plans are developed on this basis and also on the basis of information about the requirements of the occupations and their training programs. Students are encouraged to use the up-to-date occupational information library which is maintained in Room 203, Carnegie Hall. They are also encouraged to seek information from other sources such as the deans, advisers, counselors, and other persons who are interested in orienting the student in an educational program.

Continuous study of the significance of individual case data in relation to academic achievement and vocational adjustment is a necessary part of the program. A statistical laboratory and test scoring service are maintained to facilitate the work. Test scoring service is also available for instructional staff when the work can be scheduled for the free time of the IBM test scoring machine.

See, also, "Testing Program" on page 54 and "Guidance Program" on page 77.

FINANCIAL AID

Every effort is made to secure employment for those students who are partially self-supporting, but it is impossible to find work for all students needing assistance. With this in mind, every student should survey carefully the costs involved in attending Ohio University and compare them with his available resources. No one should attempt part-time employment unless financial circumstances make it absolutely necessary. Those students who find it necessary to earn a part of their

expenses while attending the University should make application for employment at the office of the Personnel Director in Ewing Hall. No permits for adjustment of academic program for the purpose of employment will be given to students below a 2.0 cumulative average and for working beyond a distance of 60 miles from Athens. Only in exceptional cases will a freshman student be given a permit to have a schedule adjustment made in order to work. Those students applying for permits must present a letter from the employer requesting their employment to the office of the Dean of Men or Dean of Women before contacting their adviser prior to registration for the semester.

SCHOLARSHIPS

Unless otherwise indicated, persons desiring information concerning scholarships or who submit applications for them should direct their communications to the Chairman, Scholarships Committee, Ohio University, Athens, Ohio.

AKRON ALUMNAE SCHOLARSHIP. A scholarship amounting to \$90, which is equal to the general registration fee for two semesters, is awarded annually by the Ohio University Women's Club of Akron to a senior girl graduating from a high school in Summit County or a Summit County student already enrolled at the University. The award is made by the club's scholarship committee on the basis of financial need, general ability, and character. Mrs. Richard R. Adams, 85 Westgay Drive, Akron, is the club's scholarship chairman.

ALBERT F. MARTING SCHOLARSHIPS. One two-year scholarship is available each year to high school graduates who enroll in the Portsmouth Branch of Ohio University. The value of each scholarship is \$100 for each semester the student is enrolled up to a maximum of four semesters. This will provide for registration fees at the Ohio University Branch, Portsmouth, Ohio, for the first two years, including all miscellaneous and laboratory fees, and provide liberal allowance for books and supplies.

Final awards are made by an impartial committee of five members. Awards are based upon the following: (a) high school scholastic record; (b) score on a college ability test; (c) qualities of citizenship, leadership, and participation in school activities.

Applications, in writing, should be made not later than July 1 to The Marting Bros. Co., Portsmouth, Ohio.

AMERICAN BANKERS ASSOCIATION SCHOLARSHIP. The American Bankers Association Foundation for Education in Economics allocates annually a \$250 loan scholarship to the College of Commerce. The loan scholarship is awardable to a deserving student of senior rank or above whose major course is in banking, economics, or related subjects.

COLUMBIA DOWNING SCHOLARSHIPS. Madeleine Downing Knight, Glynlea, South Jacksonville, Florida, has established a scholarship fund of \$10,000 as a memorial to her father, Columbia Downing, who in the early sixties was a student at Ohio University. The income from the fund, \$600 annually, is normally divided among several qualified students and awarded under the following conditions:

1. Application for a Columbia Downing Scholarship should be made directly to the Scholarships Committee not later than August 1.
2. The scholarship is awarded to men, preferably natives of Ohio.
3. The scholarship is awarded on the basis of:
 - a. Demonstrated intelligence and scholarship.
 - b. Mental and physical health.
 - c. Superior traits of character and conduct.
 - d. Effective participation in extra-curricular activities such as debate, music, oratory, athletics, etc.
4. Preference shall be given to sophomores and the scholarship may be renewed in the junior and senior years, provided the standards as set forth above are maintained.
5. The selection is based upon proficiency in general rather than special ability in one subject, emphasis being placed upon promise of development in strength of character and qualities of useful citizenship.

EAST GREEN SCHOLARSHIPS. Each semester residents of East Green award two scholarships amounting to registration and other fees, to a maximum of \$75 each, to men who are outstanding in leadership, scholarship, and citizenship. Only residents of East Green are eligible for the awards.

HARRIET TENAN SCHOLARSHIPS. The Harriet Tenan Scholarships are awarded to the entering freshman boy and girl from McConnelsville, Ohio, who are recommended by the pastor of the McConnelsville Trinity Methodist Church and the editor of the *Morgan County Herald*. The annual awards of \$45 to a girl and \$45 to a boy are made from the income from a gift to the University by the founder of the fund.

H. WESTCOTT ROACH SCHOLARSHIP. A scholarship has been established in the memory of H. Westcott Roach, a member of the Class of 1923, by his widow, Mrs. Helen Hedden Roach. Income from a memorial fund of \$1,000 is used to provide an annual scholarship for a student of outstanding ability who is majoring in music and who is in need of financial assistance. The candidate will be selected by the Director of the School of Music and the Dean of the College of Fine Arts.

OHIO ACADEMY OF SCIENCE SCHOLARSHIPS. Scholarships are available to winners in the Ohio Academy of Science competition for high school seniors. Awards are based upon: (a) high school scholastic record, (b) superior academy exhibit rating, and (c) approved rating in

the National Science Talent Search Test or in a science test given by the Ohio Academy of Science. These scholarships provide for remission of the \$45 general registration fee each semester.

OHIO UNIVERSITY SCHOLARSHIPS. A limited number of scholarships are awarded annually to a selected group of high school graduates and college students who are outstanding in scholastic achievement and promise. Each scholarship is awarded for the academic year of two semesters. A scholarship provides for the remission of the \$45 general registration fee each semester. Applications for scholarships must be submitted not later than July 1. Final awards are made by the Scholarships Committee on or before July 15. A scholarship student is required to carry a minimum load of 14 hours each semester.

Freshman Scholarships are awarded to high school graduates who rank high in their graduating classes. Awards are based upon academic record in high school and other information indicative of the candidate's general promise.

Upper-Class Scholarships are available to students who have completed at least two semesters in residence at Ohio University, carrying a full load, and who at the time of the award have a cumulative average of 3.5 (B+) or above. Any student having a 3.5 average, or who expects to have an average of 3.5 by the close of the second semester, may apply for an upper-class scholarship at any time after May 1 and prior to July 1.

RHODES SCHOLARSHIPS. Men who have completed their sophomore year at Ohio University are eligible to compete for the Cecil Rhodes Scholarship, tenable for three years at Oxford University, England, with a stipend of \$2,000 each year. These scholarships are awarded on the combined basis of character, scholarship, athletics, and leadership in collegiate activities.

ROSE MARIE DARST SCHOLARSHIP. A bequest of \$3,000 has been received from the estate of the late Mrs. Mary E. Darst to establish a memorial to her daughter, Rose Marie Darst, a member of the Class of 1926 and a former assistant professor of art at Kansas State College. Income from the memorial fund is used to provide scholarships for "worthy students of high standing in the Art Department." For information concerning these scholarships write to the Dean, College of Fine Arts, Ohio University, Athens, Ohio.

SPECIAL MUSIC SCHOLARSHIPS. A limited number of Freshman Scholarships are available to high school graduates having special ability and promise in applied music. These scholarships provide for remission of the \$45 general registration fee each semester and for remission of the applied music fees.

THOMAS COOKE McCRAKEN KAPPA DELTA PI SCHOLARSHIP. Omega chapter of Kappa Delta Pi has established a scholarship fund in honor of Dean Emeritus Thomas Cooke McCracken, dean of the College of Education from 1922 to 1946. The award from this fund will be made to

a senior in Omega Chapter, if available and acceptable, or an alumnus of the chapter of not more than three years, or a senior in the College of Education who wishes to pursue graduate study in teacher preparation. Selection will be made on the basis of criteria set up by Omega Chapter. Applications for the award should be sent to the Counselor, Omega Chapter, Kappa Delta Pi, Ohio University, Athens, Ohio, not later than March 15.

PRIZES AND AWARDS

Announcement of the winners and presentation of the following prizes and awards are made at the Honors Day Convocation, usually held in April.

A. A. ATKINSON AWARDS. Awards of \$10 as a first prize and \$5 as a second prize are given to the best senior students majoring in the Department of Electrical Engineering, and an award of \$10 is given to the best senior student majoring in the Department of Physics. The awards are provided by the income from a scholarship fund established by the late Dean A. A. Atkinson of the College of Applied Science. Two committees, composed of the teaching staff of each department, select the candidates for the prizes and are governed by the following rules:

1. Scholarship in all courses for the sophomore, junior, and senior years.
2. Intellectual alertness and keenness of insight as determined by the instructors in the student's major fields.
3. Originality, initiative, intellectual honesty, and personal industry.
4. Correctness and facility in the use of spoken and written English.
5. Character, personality, leadership, and other characteristics likely to promote success in the students' fields.

ALLIANCE FRANCAISE PRIZE. The Alliance Francaise offers each year a prize of \$15 to the student who has the highest record in advanced French (i.e., the greatest number of points in courses beyond 102), provided that the minimum requirement of 18 hours with an average above 3.6 in these courses has been attained. A student who has once won the prize will not be eligible for consideration.

ALPHA DELTA PI SCHOLARSHIP PRIZE. Xi chapter of Alpha Delta Pi offers each year a prize of twenty-five dollars to the sophomore girl enrolled at present who has attained the highest scholastic average after completing three semesters of work. Any sophomore girl is eligible to compete for the prize.

ALPHA LAMBDA DELTA AWARD. The national chapter of Alpha Lambda Delta, a society for the recognition of high scholastic attainment of freshman women, makes an annual award to the four-year senior woman who has the highest cumulative average.

ALPHA LAMBDA DELTA JUNIOR AWARD. The local chapter of Alpha Lambda Delta makes an annual award of \$10 to the junior woman judged by a committee to have the highest rating for scholarship, character, and campus citizenship.

CHI OMEGA ECONOMICS PRIZE. Tau Alpha chapter of Chi Omega, in accordance with the national policy of the fraternity begun in 1920, offers each year a prize of \$25 to the girl who does the highest grade of work in the Department of Economics. Any girl in the University is eligible to compete for the prize.

CLEVELAND BOBCAT CLUB AWARD. The Bobcat Club of Cleveland makes an annual award of \$25 to a freshman boy who stands among the five highest, scholastically, from Cuyahoga County. The final selection is made by the Scholarships Committee acting with the Dean of Men.

DELTA PHI DELTA AWARDS. The Ohio University chapter of Delta Phi Delta, national art fraternity, makes an annual award to the freshman student doing the most outstanding work in the space arts.

Iota chapter of Delta Phi Delta presents an award to the outstanding senior graduating student majoring in the fine arts which the fraternity represents.

DICK DE LA HAYE HUGHES BAND AWARD. The Dick De La Haye Hughes Memorial Band Fund as established by Mr. M. D. Hughes, of the Class of 1912, and Mrs. Hughes, Athens, in memory of their son, a former student and member of the university band. The annual income from the fund, amounting to \$60, is awarded annually to the member of the band of junior rank who is most outstanding in musicianship, band citizenship, leadership, and for recognized initiative in furthering the interest of the organization. The award may be divided between two juniors, or awarded to a senior, provided no junior is eligible. A student who has once won the award will not again be eligible to receive it.

EMERSON POEM PRIZE. W. D. Emerson, of the Class of 1833, bequeathed to the Board of Trustees of Ohio University the sum of \$1,000. The interest on this amount is awarded every second year to the students or graduates of Ohio University who write the best original poems. The award is divided into three prizes of \$60, \$40, and \$20. The judges are three persons, appointed by the President of the University and the Chairman of the Department of English, who judge independently of each other.

The following regulations must be observed in every particular:

1. The competitors must be graduates of the university or students in attendance.
2. The poems must be in the hands of the President of the University before the opening of the second semester of 1950-1951.
3. Only one poem is to be submitted by each competitor.
4. Each contestant shall submit three copies.

5. The poem shall be typewritten on paper eight and one-half by eleven inches, written only on one side, and marked with a pseudonym or character.

6. The pseudonym or character accompanied by the name and address in a sealed envelope shall be sent to the President of the University. The envelopes will not be opened until the decision of the judges has been made.

The winner of the first prize is not eligible for a second competition.

EVANS LATIN PRIZES. The Dafydd J. Evans Latin prizes consist of a first prize of \$25 and a second prize of \$12.50 to be awarded each year.

The considerations in determining the awards are ability to read Latin and a command of the structural side of the language, together with a knowledge of Roman history, literature, and life. Students are not ordinarily considered for the awards before they enter upon the second semester of junior-senior Latin.

The committee consists of the members of the staff in the Department of Classical Languages and the Alumni Secretary.

FRANCES McVICKER MAXWELL DEBATE AWARD. Each spring a cash award of \$18 is made to the junior or senior student, man or woman, selected for outstanding performance in intercollegiate debating during the current academic year. This award is made possible by the generosity of Frances McVicker Maxwell, whose gift was bestowed in memory of her days as a student at Ohio University and in particular remembrance of the occasion in 1885 when she delivered in Cutler Hall a declamation entitled, "Not To Be Won That Way."

The award is made on the basis of skill in debate as evidenced in intercollegiate contests, over-all contribution through excellence in speech to the forensics program and to the general campus welfare, personal qualities of scholarship and leadership, and integrity of character as an individual and as a speaker.

The winner is selected by a committee of three judges chosen from the faculty of the School of Dramatic Art and Speech by the President of the University.

FRANK B. GULLUM AWARD. An award of \$25, known as the Frank B. Gullum Award for Scholastic Achievement, is made annually by the undergraduate chapter of Delta Tau Delta fraternity to the male student who has made the highest scholastic record during his first two semesters at Ohio University. There are certain qualifying restrictions with regard to the minimum number of hours of credit earned at the University and enrollment, or early eligibility for enrollment, in one of the degree-granting colleges of the University.

HORN SENIOR COMMERCE PRIZE. Mr. Clarence H. Horn, of the Class of 1901 and a late resident of Athens, conducted a senior course in "Accounting for Coal Production and Distribution" for the College of Commerce for a number of years before his death on November 26,

1927, and established a trust fund from the fees he received for his service. The income from the fund, supplemented by contributions from his widow, Mrs. Sarah M. Horn, and a son, Robert H. Horn, of the Class of 1900 and the Class of 1925, respectively, is paid annually to the Bachelor of Science in Commerce degree senior who has the highest scholastic average in commerce subjects. The prize amounts to \$50.

JOHN BAYARD THOMAS BIOLOGY PRIZE. The John Bayard Thomas prize in biology has been established by Dr. Josephus Tucker Ullom, Philadelphia, Pa., a member of the Class of 1898, as a memorial to a nephew. The prize consists of \$25 to be awarded annually to the junior or senior premedical student who has done the highest grade of work in courses offered by the Department of Zoology. In making the award, consideration is given to the subjects covered and the quality of work performed. A student who has once won the prize is not again eligible for consideration.

The committee on awards consists of the Chairman of the Department of Zoology and the Dean of the College of Arts and Sciences.

MEN'S UNION SCHOLARSHIP PRIZES. The Men's Union awards each year two keys, one in the fall semester and one in the spring semester, to the man having the highest scholastic standing. These are presented in the spring and are based upon the standings of the spring semester of the preceding school year and the fall semester of the current school year.

The Men's Union also offers five cups; one each to the social fraternity, the pledge chapter, the hall in Scott Quadrangle, the organized housing unit, and the unit or group of units on Lower Campus, which has the highest scholastic average for the fall semester.

OHIO UNIVERSITY FUND AWARDS. The trustees of the Ohio University Fund, Inc., make it possible each year to give unique awards to several outstanding students. The awards are given to seniors who show outstanding ability and willingness to undertake scholarly work independently and on their own initiative. The Committee on Encouragement of Scholarship helps each recipient plan an intellectual experience tailored to his particular interests. The awards have included visits to laboratories, factories, and graduate schools, and attendance at clinics, symposia, and meetings of learned societies. All the resources of the campus are mobilized to provide entrees and letters of introduction. No fixed sum of money is named but the Ohio University Fund defrays such expenses as travel and living costs.

PANHELLENIC SCHOLARSHIP AWARDS. An award in the form of a plaque is presented annually by the Panhellenic Council to the sorority that has had the highest scholastic average for the preceding two semesters.

In recognition of economic difficulties now being experienced by many of the students attending Ohio University from outside the United States, the Panhellenic Council makes an annual award to a foreign

woman student who is selected upon the basis of scholarship and need. The award consists of boarding privileges, for a fixed period and without charge, in the home of each of the sororities composing the council.

PHI EPSILON PI MEMORIAL AWARD. An award honoring fraternity brothers killed in action in World War II has been established by Phi Epsilon Pi. The cash award of \$25 is given annually to the honorably discharged veteran, man or woman, who attains the highest scholastic standing for the year as determined by the University. To be eligible for the award, which will be continued until there are fewer than five veterans on the campus, the veteran must be enrolled as a full-time student, carrying not less than 12 academic hours.

PHI UPSILON OMICRON AWARD. A silver cup is awarded each year by Phi Upsilon Omicron, national home economics professional honor fraternity, to the sophomore student in home economics having the highest scholastic average during the first three semesters at Ohio University.

SIGMA ALPHA IOTA MUSIC PRIZE. Sigma Alpha Iota, national professional music fraternity for women, gives a prize of \$25 to the sophomore woman enrolled for the degree of Bachelor of Fine Arts with a major in music, for the degree of Bachelor of Science in Education with a major in music, or for the degree of Bachelor of Arts with a major in music, who has attained the highest cumulative average above 3.0.

SIGMA DELTA CHI SCHOLARSHIP AWARDS. Scholarship certificates are given annually by the Ohio University chapter of Sigma Delta Chi, national journalism fraternity for men, to the three journalism students having the highest scholastic records.

SIGMA DELTA CHI SPECIAL AWARD. A certificate is given annually by the Ohio University chapter of Sigma Delta Chi to the most outstanding senior man in journalism.

SUPER GREEK PRIZES. In honor of Dr. Charles W. Super, a former President of Ohio University and Professor of Greek, his students and friends established the Super Scholarship Prize Fund of \$2,500. The income from this sum provides a first prize of \$100 and a second prize of \$50 to be awarded annually to members of the junior and senior classes.

The awards are based upon the extent and quality of the work done in courses in the Greek language and literature; in courses dealing with Greek civilization and culture, and with classical culture in general; and in courses in the languages as a whole.

The committee in charge of the awards consists of the Chairman of the Department of Classical Languages and the Dean of the College of Arts and Sciences, in consultation with other members of the department. Details may be obtained from members of the committee.

VARSITY "O" SCHOLARSHIP AWARD. An award of \$50 is made annually by the Varsity "O" Club to the varsity athlete with the best record for scholarship and all-round campus citizenship. The selection is made on the basis of efforts in behalf of the organization, performance in a varsity sport(s), scholastic standing, and participation in other campus activities.

WOMAN'S MUSIC CLUB PRIZE. The Woman's Music Club of Athens awards an annual prize of \$25 to a senior student chosen from the music majors in the College of Education, or applied music majors in the College of Fine Arts or the College of Arts and Sciences with a minimum of 60 hours in music courses. The Director of the School of Music in the College of Fine Arts makes the selection. Consideration is given to scholastic average, which must be at least a 3.0 average, and to the excellence of the performance in senior or graduation recital.

WOMEN'S LEAGUE SCHOLARSHIP AWARDS. The Women's League Senate awards a prize of \$25 for high scholarship to the woman student who has been in residence at Ohio University for a period of three semesters and who has the highest scholarship average for a period of two consecutive semesters within a 12-month period.

For reasons indicated elsewhere (see "Panhellenic Awards"), the Women's League Senate annually awards a room scholarship to a foreign woman student who is chosen on the basis of demonstrated scholastic ability and need. The room provided is in one of the residence halls of the University.

A scholarship plaque is presented by the Inter-Dormitory Council to the residence hall having the highest scholastic average for all residents for a semester. Engraved with name and date, and held by each winner for a semester, permanent possession of the plaque is given to the residence hall winning it most often in an eight-semester period.

Similarly, the Organized Housing Units Council awards a plaque to the cottage having the highest scholastic average for all residents for a semester. Permanent possession is given on the same basis as that for the Inter-Dormitory Council plaque.

ZETA TAU ALPHA PRIZE IN FINE ARTS. Alpha Pi chapter of Zeta Tau Alpha, together with the Athens alumnae chapter, awards a prize of \$25 each year to the sophomore in a given field in the College of Fine Arts recommended by a committee for merit, scholarship, and future promise of success. The prize is awarded in rotation to a student in music, in speech, in painting, and in dramatic art.

LOAN FUNDS

ALUMNI LOAN FUND. The alumni and friends of Ohio University have contributed over \$8,000 since 1908 for the purpose of furnishing loans to students pursuing four-year courses in the University. Loans, not to exceed \$150, may be made to juniors and seniors who have at least a C (2.0) average. Five per cent interest is charged. Since the first loan was made in 1908, nearly \$70,000 has been advanced to needy students. The fund is administered by a committee of which the Dean of Men is chairman.

ATHENS ROTARY CLUB LOAN FUND. The Rotary Club of Athens supports a loan fund for needy students of junior or senior rank. Loans, not to exceed \$100, may be made on promissory notes with interest at the rate of five per cent per annum. To qualify, an applicant shall have for his entire record a scholastic average of not less than C (2.0). Inquiries may be addressed to the Dean of Men who is chairman of the Athens Rotary Club Loan Fund Committee.

CLINTON POSTON BIDDLE MEMORIAL LOAN FUND OF OHIO UNIVERSITY. On June 3, 1939, Doctor and Mrs. T. R. Biddle gave \$5,000 to the University for the purpose of establishing a loan fund in memory of their son, Clinton Poston Biddle, a member of the Class of 1917. Loans, of from \$25 to \$200 at five per cent interest, may be made from this fund to needy and deserving juniors or seniors who have a scholastic average of 2.75 or better. The fund is administered by a committee composed of the deans of the undergraduate degree colleges. Communications concerning the fund may be addressed to the Chairman, Committee on The Clinton Poston Biddle Memorial Loan Fund, Ohio University.

G. FRANKLIN WHITE STUDENT LOAN FUND. This fund, of \$1,000, was provided by the will of the late Dr. G. Franklin White, of the Class of 1901. Dr. White was senior pathologist of the Bureau of Entomology and Plant Quarantine, U. S. Department of Agriculture, at the time of his death in 1937. Loans are granted to juniors and seniors at an interest rate of five per cent, with preference given to students preparing to teach and to premedical students. Preference, under the terms of the grant, is also given to residents of Ohio, although non-residents are not barred from applying for loans. Borrowers are required to have a scholastic average of C (2.0) or better. Applications should be made to the Dean of Men.

JAMES P. PORTER LOAN FUND IN PSYCHOLOGY. This fund was established by graduates and former students who were majors in psychology under Dr. James Pertice Porter, emeritus professor of psychology and former head of the Department of Psychology, in honor of their onetime professor. Loans are available to upper-class students and graduate students in psychology under regulations set up to govern the fund. Application for loans, which are submitted to the Chairman, Loan Funds Committee, Ohio University, must be approved by the staff of the Department of Psychology.

OHIO UNIVERSITY ENGINEERS LOAN FUND. The Ohio University Engineers Club has established a loan fund for needy and deserving engineering students in their junior or senior years who have maintained a C (2.0) average. Loans of from \$25 to \$200 at five per cent interest may be obtained. Inquiries should be addressed to the Dean of the College of Applied Science.

KELLOGG FOUNDATION LOAN FUND. The W. K. Kellogg Foundation of Battle Creek, Michigan, has granted the University the sum of \$4,000 to be used as a scholarship and loan fund for medical technology students during their year at Mount Carmel Hospital in Columbus. See "Medical Technology" on page 102.





WOMEN'S LEAGUE LOAN AND SERVICE FUND. Since 1913, the Women's League of Ohio University has maintained a loan and service fund for women students. A sum not to exceed \$100 may be borrowed by a student who has spent at least one year on the campus. Collateral, or payment guaranteed by a parent, is required. Four per cent interest is charged. The Dean of Women acts as treasurer of the fund.

EMERGENCY LOAN FUNDS

ALPHA PHI OMEGA LOAN FUND. When the Delta Gamma chapter of Alpha Phi Omega, national scouting service fraternity, was installed on the Ohio University campus, January 17, 1943, a loan fund of \$50 was established. Scouts or former scouts may borrow up to \$15 from this fund to meet financial emergencies. A service charge of 25 cents is made for a 30-day loan. Applications should be made at the office of the Dean of Men.

LAKWOOD MOTHERS' CLUB LOAN FUND. The Ohio University Mothers' Club of Lakewood, Ohio, has given \$100 to be used as an emergency loan fund for the benefit of students whose homes are in Lakewood, Rocky River, or Bay Village. Any amount up to \$10 may be borrowed for one month's time. A fee of 25 cents is charged for each loan. Applications should be made at the office of the Dean of Men.

MEN'S UNION EMERGENCY LOAN FUND. The Men's Union, which is the governing organization representing all men on the Ohio University campus, has set up a loan fund with a principal amount of \$1200. Loans not exceeding \$15 are made to men students to meet financial emergencies. Loans are not made for expenses which might reasonably be anticipated. A service charge of 25 cents is made for a 30-day loan. Applications should be made at the office of the Dean of Men.

HEALTH SERVICE FUND

DELLA HIXSON HEALTH SERVICE FUND. Prompted by a deep interest in physical welfare, the late Mrs. Della Connett Hixson, Cambridge, Ohio, of the Class of 1897, bequeathed a sum of money to the University, the annual interest on which, approximately \$700, is to be used for the treatment and hospitalization of students who are financially unable to provide such service for themselves or whose families cannot defray these expenses. The fund, known as the Della Hixson Health Service Fund, is administered by a committee composed of the Dean of Women (chairman), the Dean of Men, and the Director of the University Health Service.

SPEECH, HEARING, AND ENGLISH CLINICS

Students needing clinical help for the correction of special speech and hearing problems may find that help available through the resources of the Speech Department in the new Speech Building. Further description of this help is to be found under "Speech and Hearing Clinic" on page 141.

For assistance in overcoming other physical handicaps, see "Adapted Activities" on pages 21 and 163.

Students who fail to meet Ohio University standards of clearness and correctness in expression of ideas in English may find help in the English Clinic. Description of this remedial work is to be found under "Proficiency in English" on page 70.

VETERANS AFFAIRS

Veterans who enter Ohio University should confer with the Co-ordinator of Veterans Affairs whose office is on the first floor of the Temporary Office Building. It is that official's desire to be of all possible service to veterans enrolled in the University.

Also available to assist veterans with their problems are the staffs of three offices maintained at Ohio University by the Federal Government: the Veterans Administration Contact Office at 6½ W. State Street, the Veterans Administration Education and Training Office, Room 4, Temporary Office Building; and the Veterans Administration Guidance Center in Carnegie Hall.

To be eligible for training under the "G-I Bill of Rights" veterans must be certified for such training under either Public Law 346 or Public Law 16. Veterans whose papers are in order will not have to pay for any of the registration fees, laboratory fees, etc., and will be provided with all equipment, books, and supplies required for their classes.

Veterans should apply for a certificate of eligibility far enough in advance so that they will have the certificate ready to submit to the University at the time of registration.

Veterans who wish further information should write to the Co-ordinator of Veterans Affairs, Ohio University, Athens, Ohio.

See, also, "Credit For Military Service" on page 57, and "Housing for Married Students" on page 18.

STUDENTS FROM ABROAD

Ohio University welcomes students from abroad who show promise of profiting from educational opportunities in this country and has prepared a special bulletin for the benefit of prospective students from outside the continental limits of the United States. This bulletin may be obtained by writing to the Adviser to Foreign Students, Ohio University, Athens, Ohio.

The Adviser's interest in the problems of the student from abroad is not limited to official matters, and all such students are invited to consult him at the beginning of their period of residence and to call upon him at any time during their stay at the University.

A foreign student seeking admission to an educational institution in the United States must present certificates of admission, issued by the institution which is willing to receive him, to the American Consulate nearest his home. With these certificates he may apply for a student visa (type 4/e) permitting him to enter the United States.

STUDENT ACTIVITIES AND ORGANIZATIONS

SOCIAL POLICY

The students, faculty, and administrative officers of Ohio University and the community of Athens are united in their interest in maintaining a moral tone and a social pattern that is in keeping with good taste and acceptable social practice anywhere among educated people.

Ohio University has a long and interesting history. Succeeding generations of students who come to the University with varying backgrounds and social interests should enrich the traditions, social standards, prestige, and reputation of the University. The University expects students to exercise discerning judgment and to be personally responsible for absorbing and complying with the social patterns of the university community.

The student body, faculty, and administrative officers, therefore, will employ any reasonable means to control moral indiscretions and social behavior which is in bad taste.

CAMPUS AFFAIRS COMMITTEE

The committee authorized by the administration to supervise all extracurricular student affairs is known as the Campus Affairs Committee. This committee consists of eleven members, six of whom are members of the faculty appointed by the President, five of whom are students. The students automatically become members by virtue of position—the president of the Men's Union, the president of the Women's League, the president and two vice-presidents (one man and one woman) of the Student Council. The Campus Affairs Committee receives and allocates the activities fee (except that designated for athletics), and has jurisdiction over all matters which involve relationship of the University to student affairs. It has delegated to the Student Council the planning and execution of the on-campus student life program with the Dean of Men and the Dean of Women as advisers. The Dean of Men and the Dean of Women serve as co-chairmen of the Campus Affairs Committee.

STUDENT GOVERNMENT ASSOCIATIONS

THE STUDENT COUNCIL. The Student Council is composed of representatives of the following:

Women's League	Varsity O
Men's Union	Men's Independent Association
Panhellenic Council	Women's Independent Association
Interfraternity Council	American Red Cross
Campus Religious Council	Y.W.C.A.
Women's Recreation Association	Y.M.C.A.

The Women's League and the Men's Union each have two representatives, while the remaining organizations have one representative, each. The Dean of Men and the Dean of Women, a representative of the *Ohio University Post* (student newspaper), a representative of radio

station WOUI, and the chairman of the annual campus chest are ex-officio members of the council.

The president and vice-president of the Student Council are elected by a campus ballot in May and serve during the ensuing academic year. The council operates under a constitution of its own which has been approved by the Campus Affairs Committee. It has the delegated authority, with the approval of the Campus Affairs Committee, to consider, promote, and put into effect projects which pertain to student activities and, particularly, to promote a balanced campus-wide social program.

THE WOMEN'S LEAGUE. The Women's League, the all-women's organization, has an active membership of every regularly-enrolled woman student. The Women's League office and club rooms are in McGuffey Hall. The activities sponsored consist of a Freshman Women's Party, dances, receptions, teas, Co-ed Prom, and Mother's Week End. Each year, the Women's League awards a \$25 cash prize to the woman with the highest scholastic average extending over two semesters.

THE MEN'S UNION. The Men's Union is an organization to which every regularly-enrolled male student automatically belongs. Each man is entitled to all the privileges and recreational facilities provided in the Student Center without additional cost. The Men's Union sponsors the Registration Hop in September, the annual Rodeo, Dad's Week End during the football season, a varsity show, Homecoming activities, and many other projects. Throughout the year the Men's Union also sponsors activities designed to be broad enough in scope to include the interests of every man on the campus. Each semester the Men's Union awards a gold medal to the man with the highest scholastic standing.

PUBLICATIONS

The *Ohio University Post*, the student newspaper, is published twice a week. The *Athena*, a yearbook published under student editorship, appears toward the latter part of the spring semester. The editorial and business offices for both publications are located in the Student Center Building.

Opportunities are provided for practical work in copy writing and editing, photography, salesmanship, accounting, and business and editorial management. Students are encouraged to make application for the various positions on the publications staffs through the respective editors and business managers.

There are also a number of salaried positions on both publications for qualified individuals. Applications for these positions are filed with the Dean of Men or the Dean of Women at certain announced times. The Campus Affairs Committee, in consultation with the faculty advisers, is responsible for the selection of salaried staff members and for the overall management of the publications.

The Ohioan, a general campus magazine with pictorial features, is published monthly under the joint supervision of Sigma Delta Chi, professional journalism fraternity, and Kappa Alpha Mu, photographic journalism recognition society.

DRAMATIC AND FORENSIC ORGANIZATIONS

THE UNIVERSITY THEATRE. The University Theatre is a theatrical organization which serves both the University and the community by promoting the cultural and entertainment values which the legitimate theatre provides through participation of audience and performers. Production details of the presentation of five plays annually are managed, under faculty supervision, by students enrolled in courses in the School of Dramatic Art and Speech. Casts are chosen at public tryouts open to all students.

THE UNIVERSITY PLAYSHOP. The University Playshop is an experimental theatrical producing group comprised principally of student directors, actors, and technicians, who are enrolled in courses in the School of Dramatic Art and Speech. However, roles in Playshop productions are open to all students of the University. Bills of one-act plays and new scripts are presented from time to time during the academic year. Playshop also produces the "Great Play" series. Each year two full-length plays are given as a part of a four-year cycle designed to be representative of each of the eight periods in the history of drama from the classical Greek and Roman to the American Theatre of the early nineteen hundreds.

VARSITY INTERCOLLEGIATE DEBATE. Ohio University is an active member of the Ohio Intercollegiate Debate Association for men and for women. Participation in a program of about fifteen debates is in preparation for a tournament which decides the state championship. The group also schedules about twenty debates before high schools in the various parts of the state.

FRESHMAN DEBATE. Freshman debate is sponsored for freshmen who may or may not wish to enroll in the regularly scheduled debate classes.

ORATORY CONTEST. Ohio University is an active member of three state oratory associations. In February the State Oratorical Contest for Men is held, followed in March by the State Oratorical Contest for Women, and in May by the State Peace Contest in which men participate.

INTERPRETATION CONTEST. Every year an average of four interpretation contests in poetry and prose are held for men and women. The State Interpretation Contest for women is held in connection with the State Oratorical Contest.

MUSIC ORGANIZATIONS

Membership in any music organization is based on competitive trials.

THE UNIVERSITY CHORUS. A large chorus of mixed voices which performs works from the standard choral repertoire. Participation by qualified singers in the community is welcomed.

THE UNIVERSITY MEN'S GLEE CLUB. Among the activities of the club are several concerts each year on the campus and participation in various traditional events. Occasional tours and radio broadcasts are scheduled.

THE UNIVERSITY WOMEN'S GLEE CLUB. The club is well known for the quality of its work and its activities on the campus. It gives several programs on the campus and occasional trips are taken in the spring.

THE UNIVERSITY BANDS. The University Bands are composed of three musical organizations—the Symphonic Band, which maintains a well-balanced instrumentation of selected musicians; the Varsity Band, which serves as a recreational-laboratory group; and the football Marching Band, which is composed of all members of the Symphonic Band in addition to selected players from the Varsity Band. Members of all bands offer concerts and performances in the interests of musical culture and entertainment and for the enhancement of institutional spirit. Membership with credit is open to all qualified men and women of the various schools and colleges of the University.

THE UNIVERSITY SYMPHONY ORCHESTRA. At present the orchestra has a complete, well-balanced instrumentation of seventy. Several concerts, using the standard symphonic repertoire, are given on the campus during the year and trips to near-by cities are occasionally made. Membership, either with credit or as an extracurricular activity, is open to all qualified men and women of the various schools and colleges of the University.

RELIGIOUS ORGANIZATIONS

The Y.W.C.A. is the campus religious organization for women. Its program includes social service activities in the Children's Home, County Infirmary, State Hospital for the Insane, Sheltering Arms Hospital, mining centers in Athens County, and for shut-ins and colored children in Athens. Worship services, lectures, discussions, social functions, etc., are also a part of the program.

Under the direction of the Y.W.C.A. the pledges of the Greek-letter sororities participate in an annual original theatrical production which is known as "The Prep Follies." The income from the production is used in support of the Y.W.C.A. program.

The Y.M.C.A., in past years one of the most active organizations on the campus, has been re-organized to give an all-campus religious activity for men. It includes a broad program of religious, social, and service functions. Bull sessions, personal counseling, and worship services are integral parts of the Y.M.C.A. schedule.

The religious welfare and interests of all students are fostered by various organizations sponsored by the churches of Athens. The Methodist Church sponsors the Wesley Foundation with its divisions of Sigma Theta Epsilon, a national organization for men, and Kappa Phi, a national organization for women. The Presbyterian Church sponsors the Westminster Fellowship with Phi Chi Delta, an organization for women. Theta Epsilon, a national organization for men, and Kappa Phi, a national organization for women, Kappa Beta. The Catholic Church, assisted by a group of faculty members, sponsors the Newman Club for

men and women. The First Church of Christ, Scientist, sponsors a Christian Science Club, and the Episcopal Church sponsors the Canterbury Club. Although there is no Lutheran Church or Jewish Synagogue in Athens, a Lutheran Student Association and a Hillel Foundation of Ohio University are sponsored for these groups, respectively. The Foundation maintains approved club rooms for its members.

Representatives of the religious organizations constitute the Campus Religious Council. This council serves as a coordinating agency for the programs of the various groups listed, and initiates programs of an interfaith nature upon the campus. The council is composed of the adult advisers and two student representatives from each group.

SCHOLASTIC AND SOCIAL ORGANIZATIONS

HONOR SOCIETIES*

(Organizations conferring membership in recognition of achievement in some broad field of education.)

TAU KAPPA ALPHA. Founded at Indianapolis, Indiana, in 1908 and established at Ohio University in 1916. A society for the recognition of scholastic attainment in the field of forensics. Membership is open to students who meet the scholarship requirements, who are of junior or senior rank, and who have for two years participated creditably in the forensic program of the University.

KAPPA DELTA PI. Founded at the University of Illinois, Urbana, Illinois, in 1911 and established at Ohio University in 1923. A society for the recognition of high scholastic attainment. Membership is open to students who plan to teach or engage in other types of educational service.

PHI BETA KAPPA. Founded at the College of William and Mary, Williamsburg, Virginia, in 1776 and established at Ohio University in 1929. A society for the recognition of high scholastic attainment. Membership is open to students who meet the scholarship requirements and who have done at least seventy-five per cent of their work in courses which the fraternity regards as nonprofessional and nonvocational.

KAPPA TAU ALPHA. Founded at the University of Missouri, Columbia, Missouri, in 1910 and established at Ohio University in 1929. A society for the recognition of scholastic attainment in the field of journalism, particularly, but men and women eligible for membership must attain high scholarship in their general university work as well.

MORTAR BOARD. Founded at Syracuse, New York, in 1918 and established at Ohio University as Cresset chapter in 1938. A society for the recognition of senior women who have been outstanding for service, scholarship, and leadership.

*Listed in the order of establishment at Ohio University.

EPSILON PI TAU. Founded at Ohio State University, Columbus, Ohio, in 1929 and established at Ohio University in 1934. A society for the recognition of high scholastic attainment. Membership is open to students who meet the scholastic requirements in the field of industrial arts education and in their general university work. A student cannot become eligible for membership before the second semester of his junior year.

PHI ETA SIGMA. Founded at the University of Illinois in 1923 and established at Ohio University in 1936. A society for the encouragement and recognition of high scholastic attainment on the part of men of the freshman class.

ALPHA LAMBDA DELTA. Founded at the University of Illinois in 1924 and established at Ohio University in 1941. A society for the encouragement and recognition of high scholastic attainment on the part of women of the freshman class. Election may be on the basis of the scholarship record of the first semester, or for the average of the entire freshman year.

CAMPUS LEADERSHIP SOCIETIES

(Local organizations conferring membership on the basis of service and leadership.)

TORCH. Established at Ohio University in 1913. Primarily for senior men. The "tapping" of men for Torch is a tradition on the campus.

J CLUB. Established at Ohio University in 1930. For junior men.

PHOENIX. Established at Ohio University in 1931. For junior women.

PROFESSIONAL, RECOGNITION, OR DEPARTMENTAL SOCIETIES

(Organizations conferring membership in recognition of achievements in specific fields of education.)

Accounting* (men) -----	BETA PSI (local)
Agriculture (men and women) -----	ALPHA OMEGA UPSILON
Band (men and women) -----	KAPPA KAPPA PSI
Band (women) -----	KEYNOTES (local)
Campus Service (men) -----	ALPHA PHI OMEGA
Classical Languages (men and women) -----	ETA SIGMA PHI
Commerce (men and women) -----	ALPHA OMICRON (local)

*Inactive during current year.

Dramatics (men and women) -----	NATIONAL COLLEGIATE PLAYERS
Education* (women) -----	PI THETA
Engineering (men) -----	PI EPSILON MU (local)
Fraternities (men) -----	CREST (local)
French (men and women) -----	L'ALLIANCE FRANCAISE
Home Economics (women) -----	PHI UPSILON OMICRON
Journalism (women) -----	THETA SIGMA PHI
Journalism (men) -----	SIGMA DELTA CHI
Military (men) -----	ARNOLD SOCIETY OF AIR CADETS
Military (men) -----	PERSHING RIFLES
Military (men) -----	SCABBARD AND BLADE
Music (women) -----	SIGMA ALPHA IOTA
Music (men) -----	PHI MU ALPHA
Painting and Allied Arts (men and women) -----	DELTA PHI DELTA
Photographic Journalism (men and women) -----	KAPPA ALPHA MU
Psychology (men and women) -----	PSI CHI
Radio (men and women) -----	CHI RHO BETA (local)
Russian (men and women) -----	SAMOVAR (local)
Sociology (men and women) -----	ALPHA KAPPA DELTA
Spanish -----	SPANISH HONORARY (local)

RELIGIOUS SOCIETIES

(Organizations sponsored by Athens churches or church-affiliated groups. All are social as well as religious in character and activities.)

CAMPUS RELIGIOUS COUNCIL (representatives of all religious groups)
CANTERBURY CLUB (Episcopal men and women)
CHRISTIAN SCIENCE CLUB (men and women)
DISCIPLES FOUNDATION (Christian Church men and women)
HILLEL FOUNDATION (Jewish men and women)
KAPPA BETA (Christian Church women)
KAPPA PHI (Methodist women)
LUTHERAN STUDENT ASSOCIATION (men and women)
NEWMAN CLUB (Catholic men and women)
PHI CHI DELTA (Presbyterian women)

*Inactive during current year.

PHI PSI ZETA (Presbyterian men)
SIGMA THETA EPSILON (Methodist men)
WESLEY FOUNDATION (Methodist men and women)
WESLEY PLAYERS (Methodist men and women)
WESTMINSTER FELLOWSHIP (Presbyterian men and women)

SOCIAL FRATERNITIES

(Self-perpetuating groups which organize the social life of their members as a contributing factor to their educational program. Membership is upon invitation only.)

INTERFRATERNITY COUNCIL (MEN)*

BETA THETA PI (1939)†—Beta Kappa Chapter, 1841
DELTA TAU DELTA (1859)—Beta Chapter, 1862
PHI DELTA THETA (1848)—Ohio Gamma Chapter, 1868
PHI KAPPA TAU (1906)—Beta Chapter, 1909
THETA CHI (1856)—Alpha Tau Chapter, 1925
TAU KAPPA EPSILON (1899)—Alpha Beta Chapter, 1927
PHI KAPPA (1889)—Psi Chapter, 1929
PI KAPPA ALPHA (1868)—Gamma Omicron Chapter, 1929
PHI EPSILON PI (1904)—Alpha Rho Chapter, 1933
ACACIA (1904)—Ohio Chapter, 1946
PHI SIGMA DELTA (1910)—Alpha Delta Chapter, 1947
SIGMA OMICRON NU (local), 1948
SPHINX (local), 1948
SIGMA CHI (1855)—Ohio Chapter, 1949
BETA SIGMA (local), 1949
LAMBDA CHI ALPHA (1909)—Alpha Omega Chapter, 1950
ALPHA DELTA OMEGA (local), 1950

The office of the Dean of Men encourages the formation of groups looking to local fraternity status and, later, national affiliation. In order to see that groups are properly organized, it is necessary that they discuss their aims and purposes with the office of the Dean of Men at the *inception* of their organization.

*Listed in the order of establishment at Ohio University.
†Year of founding of national organization.

PANHELLENIC COUNCIL (WOMEN)*

PI BETA PHI (1867)†—Ohio Alpha Chapter, 1889
 ALPHA GAMMA DELTA (1904)—Zeta Chapter, 1908
 ALPHA XI DELTA (1893)—Pi Chapter, 1911
 CHI OMEGA (1895)—Tau Alpha Chapter, 1913
 ALPHA DELTA PI (1851)—Xi Chapter, 1914
 ZETA TAU ALPHA (1898)—Alpha Pi Chapter, 1922
 PHI MU (1852)—Delta Delta Chapter, 1927
 PHI SIGMA SIGMA (1913)—Beta Delta Chapter, 1941
 SIGMA KAPPA (1874)—Beta Upsilon Chapter, 1949
 THETA RHO (local), 1946

INDEPENDENT GROUPS

(Organizations for students not affiliated with Greek-letter social groups.)

MEN'S INDEPENDENT ASSOCIATION, 1938
 WOMEN'S INDEPENDENT ASSOCIATION, 1946

STUDENT GOVERNMENT ASSOCIATIONS AND CLASS ORGANIZATIONS

MEN'S UNION	SENIOR CLASS
WOMEN'S LEAGUE	JUNIOR CLASS
STUDENT COUNCIL	SOPHOMORE CLASS

SPECIAL INTEREST SOCIETIES

ADVERTISING CLUB	DER DEUTSCHE VEREIN
AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS	DOLPHIN CLUB
BAND CLUB	DRAMATIC ARTS AND SPEECH
BOTANY CLUB	FINE ARTS COUNCIL
CAMERA CLUB	FINNETTES
CHEMICAL SOCIETY	FLYING "O"
CHILDHOOD EDUCATION CLUB	FOOTLIGHTERS
CINCINNATI BOOSTERS	HOME ECONOMICS CLUB
CLASSICAL CLUB	INDUSTRIAL ARTS CLUB
DANCE CLUB (women)	INTERNATIONAL CLUB
DEMOLAY	LE CERCLE FRANCAIS
	LOS AMIGOS

*Listed in the order of establishment at Ohio University.

†Year of founding of national organization.

MUSIC EDUCATORS NATIONAL CONFERENCE	SAILING CLUB
OHIO UNIVERSITY ENGINEERS	SIGMA EPSILON ALPHA
RADIO CLUB	SOCIOLOGY CLUB
RIFLE CLUB (men)	SQUARE AND COMPASS
RIFLE CLUB (women)	TAU SIGMA
PHILOSOPHY CLUB	TENNIS CLUB
PREMEDICAL CLUB	VARSITY "O" (men)
PROGRESSIVE CLUB	VARSITY "O" (women)
PUBLIC AFFAIRS CLUB	WOMEN'S RECREATION ASSOCIATION
	WRITER'S WORKSHOP

CULTURAL AND RECREATIONAL ADVANTAGES

UNIVERSITY LIBRARY

The Library is the center—the heart—of the University and is for use of all members of the University. Its collections are housed in the Edwin Watts Chubb Library, erected in 1930 and named in honor of a former dean of the College of Arts and Sciences.

The main collection of 186,668 volumes, including periodical sets, documents, and pamphlets, is shelved chiefly in the stacks. All students have direct access to a reference collection of several thousand volumes in the Reading Room and to current issues of more than 800 periodicals and newspapers. Books reserved in courses at faculty request are kept in a room just off the Circulation Hall. A separate room containing books in the field of fine arts is the first of a projected series of special subject collections available on open shelves, and a browsing room contains open shelf books of general interest. Small collections of specialized material are administered by the Department of Chemistry, the School of Music, and the College of Commerce, in their respective buildings. In the Children's and Young People's Room an extensive collection of books for younger readers provides service to the children of Athens and is used as a laboratory by students in education.

A small room has been set aside in which to bring together books and papers relating to the history of the University and of southeastern Ohio.

During regular sessions the Library is open every day throughout the day and evening. On weekends and during vacations shorter hours are observed.

Public library service is maintained through a branch of the Athens County Library in the Chubb Library building. In addition, the collections of the university library are generally available to local residents on application.

THE STUDENT CENTER

The Student Center provides meeting places for various organizations of the men and women, and houses the offices of the student publications. The building includes a ballroom, a game room for billiards and ping pong, and a room that is available for banquets. The Student Grill, located in the Student Center, provides meals and fountain service, and is the most popular meeting place on the campus for the men and women of the University. The Recreation Hall, located on The Green northwest of Memorial Auditorium, provides light refreshments, lounging chairs, newspapers, magazines, radio, and space for dancing.

Plans for a new Student Center Building are actively progressing under an architect, and final building plans are expected to be approved before the current academic year is completed.

THE NATATORIUM

Recently completed is the new Natatorium. The pool building, of brick and steel construction and of Colonial style architecture, is one of the largest and most modern natatoriums on any college campus.

Conveniently located adjacent to the main campus, the building is featured by an Olympic style pool, 42 feet wide by 75 feet long, with six standard 7-foot racing lanes and a rated capacity of 116 persons. The pool is equipped with submerged lighting, and Olympic style starting blocks and diving boards.

Besides the pool, the building contains locker rooms, dressing rooms, classrooms, foot bath pits, trainer's quarters, and spectator accommodations for almost 1,000 persons.

ART EXHIBITS

The School of Painting and Allied Arts maintains an art gallery in the Edwin Watts Chubb Library in which a program of exhibitions is conducted throughout the year. Other exhibitions are scheduled from time to time in other parts of the library.

GUEST ARTISTS AND SPEAKERS

In addition to bringing many distinguished persons to the campus for limited engagements, the University each year invites one or more guest artists to spend periods of time during which they not only lecture and appear in recitals but counsel informally with interested students.

Among the visitors who have recently been in residence for consultation and instruction are Dr. Ernest Von Dohnanyi, eminent Hungarian composer, conductor, and pianist; Miss Winifred Lenihan, distinguished professional actress and former director of the New York Theatre Guild School of Acting; and Mr. J. A. Davies, former manager of marine turbine engineering for the Westinghouse Electric Corporation, now consulting engineer for the main propulsion equipment for the new super-liner, the *S.S. United States*.

In full-time residence is Charles Allen Smart, author of a best seller, "R.F.D.," and of other novels including "New England Holiday," "The Brass Cannon," "Wild Geese and How To Chase Them," "Roscommon," and "Sassafrass Hill." Mr. Smart teaches a course in creative writing and is available for individual conferences and counseling.

COMMUNITY CONCERTS

Season tickets for concerts sponsored by the Athens Community Concert Association are available to students of the University at reduced rates. During recent years the Association has brought to the campus internationally-famed instrumentalists and vocalists, symphony orchestras, opera companies, and ballet groups.

FINE ARTS COUNCIL

The Fine Arts Council was organized in 1942 to establish and develop the Fine Arts Scholarship and Loan Fund and to encourage worthwhile projects in the fine arts. The council is made up of two delegates from each of the following organizations founded for the purpose of fostering some phase of the fine arts: Tau Kappa Alpha, Footlighters, National Collegiate Players, Sigma Alpha Iota, Phi Mu Alpha, Kappa Kappa Psi, Delta Phi Delta, Camera Club, Dance Club, and Chi Rho Beta. Since its inception, the council has sponsored a campus-wide production of Jerome Kern's "Roberta," George Gershwin's "Girl Crazy," Vincent Youman's "No, No, Nanette," "Song of Norway," based on the music of Edvard Grieg, and the annual Ohio Valley Oil and Water Color Show. The council conducts a campus-wide search for talent during each fall semester.

UNIVERSITY MUSEUM

The University Museum houses more than 80,000 specimens, including the specimens from Dr. S. P. Hildreth's famous collection of rocks and minerals dated 1815 and 1825.

There are numerous rare objects of archaeological and ethnological value. Many science collections have gravitated to the museum through the efforts of local groups, societies, individuals, and activities. These have yielded series of fossils, rocks, minerals, plants and animals. In addition, there are on display many products of great historic and economic interest.

Among the museum's more spectacular collection and displays are the Elinore Wilson Gordon art collection, which includes many fine carvings from Thailand, Bali, and Africa as well as other pieces of artwork; and the "Alter of Beauty," a fluorescent display, which is dedicated to the memory of its originator, the late Dr. W. A. Matheny. The Gordon collection is on display in the basement of the Edwin Watts Chubb Library where it may be viewed by the public.

The museum is housed in the basement of Alumni Memorial Auditorium and is open to the general public—Monday through Friday, 4 to 6 p.m.; Saturday 8 a.m. to 12 noon.

RECREATION

The Division of Physical Education and Athletics directs the intramural athletic program at Ohio University. This program includes all competitive and physical recreational activities that are sponsored for men and women students.

Present facilities at Ohio University for intramural athletics include a gymnasium for men, a gymnasium for women, a natatorium, and extensive outdoor recreational areas. The men's athletic fields are equipped to handle six softball games or four touch-pass football games at one time. The women's athletic field is available for intramural softball, hockey, and soccer. Twenty tennis courts are used interchangeably in the men's and women's department.

The following intramural activities are offered: touch football, basketball, volleyball, softball, tennis, badminton, bowling, horse shoes, wrestling, boxing, field days, soccer, hockey, swimming and ping pong.

The Division of Physical Education and Athletics directs the varsity sports program which consists of football, baseball, basketball, track, wrestling, cross country, tennis, swimming and golf.

The recently-completed natatorium, containing an Olympic-style pool with a rated capacity of 116 persons, has six racing lanes and provides excellent facilities for both intramural and intercollegiate competitions, as well as swimming of a purely recreational nature.

The Women's Recreation Association has a cabin in the wooded hills outside of Athens that is used by university church groups, honor societies, and specialized club groups for outing activities.

Dramatic productions by the University Theatre and the University Playshop are scheduled at frequent intervals for the enjoyment of students and members of the local community.

Numerous dances, open to all students and sponsored by C.A.C.—recognized organizations, are held during the year. These are both formal and informal in nature.

The Dance Clubs, sponsored by the women's department of the Division of Physical Education and Athletics, give an annual dance concert which is a production of compositions in dance form.

Under the sponsorship of the Men's Independent Association feature movie productions are shown three nights each week in Memorial Auditorium.

Several of the local churches have social-religious programs that are designed for and enjoyed by large numbers of students.

Not many miles distant from Athens, and suitable as weekend diversions, are the attractions of two of the state's most scenic areas—Lake Hope, in the heart of the Zaleski State Forest, and the caves and gorges of the Hocking Park Area.

BUREAU OF APPOINTMENTS

Through the Bureau of Appointments, located in Cutler Hall, students, former students, and graduates of the University may obtain assistance in securing positions in such fields as teaching, business, and industry. There is no registration fee, and no charge is made for service while an applicant for assistance is enrolled as a student in the University or during his first year out of school. After the one-year period a charge of \$2 a year is made for each year in which assistance is requested.

The Director of the Bureau of Appointments and the office personnel are available to counsel students relative to their vocational plans.

The Bureau maintains and promotes all possible connections with prospective employers for the benefit of persons seeking initial placement and for those looking toward advancement to better positions.

ALUMNI OFFICE

The Alumni Office, a central records office and service agency, located in Cutler Hall, is maintained jointly by Ohio University and the Ohio University Alumni Association. The work of the office is supervised by the Alumni Secretary, who is the administrative head of the alumni association.

The maintenance of biographical and address records of graduates and former students is a primary function of the office. *The Ohio Alumnus*, published monthly from October to June, is the official magazine of the alumni association and is mailed to all members paying the annual membership fee.

The Ohio University Alumni Association was organized June 22, 1859, to serve the mutual interests of the alumni and the University. Any person who has attended the University for at least one year is eligible for membership in it. The association is governed by a group of four principal officers and an executive committee of seven members. Local groups, known as chapters, have been organized in cities, counties, and other geographical areas where the number of graduates and former students is large enough to warrant or support such groups.

PUBLIC SERVICE DEPARTMENTS

NEWS BUREAU

Supervised by the Director of Press Relations, the Ohio University News Bureau prepares stories, features, and pictures concerning all branches of the University, including intercollegiate athletics, and the activities and accomplishments of students and student groups, for publication in newspapers and magazines and for radio broadcast. Assistance is given in writing material for various university publications

and bulletins. Liaison is maintained with other university and college publicity departments. Visiting members of the press and radio are invited to make the News Bureau, located in Cutler Hall, their headquarters when visiting Ohio University, and every aid is given in securing data requested personally or by letter.

PUBLIC RELATIONS OFFICE

The University maintains a Public Relations Office, located in Cutler Hall, for the following purposes: to disseminate interesting and reliable information on all phases of university life to prospective students and alumni; to give public school officers and prospective students information about the educational facilities of the University through personal interviews, literature, and correspondence; to provide educators, educational agencies, and other organizations with statistical and other information about the University; and to arrange for the availability of university talent and services to high schools, civic groups, alumni chapters, and other organizations, in order that good will toward the University may be furthered.

SPEAKERS BUREAU

The School of Dramatic Art and Speech operates a Speakers Bureau, the purpose of which is to supply student talent programs to service clubs, public schools, and other organizations in Athens and the surrounding area. A variety of programs, including debates, discussion groups, individual speeches, interpretative reading programs, mock radio shows, and one-act plays, are supplied. The Speakers Bureau offers an opportunity for advanced students to gain practical experience in speaking.

RADIO STATIONS "WOUI"—AM AND FM

Ohio University maintains a laboratory radio station, WOUI—AM, which operates on the "carrier current" or "wired wireless" principle. At the present time the station has three studios, a control room, and a transmitter room. Upon completion of the new Speech Building, the present radio facilities will be moved to that structure and considerably expanded.

WOUI—FM, the University's non-commercial educational frequency modulation station of 10-watt power, gives the advanced radio major a chance to perform in the public domain. This station also broadcasts major events beamed to the public as well as the students. Its programs are primarily written and produced as laboratory projects for radio students, although its wide scope in programming make it a public servant as well.

OHIO UNIVERSITY FUND, INCORPORATED

The Ohio University Fund, Inc., a non-profit organization, was incorporated October 11, 1945, under the laws of the State of Ohio for the following purposes:

"The support of an educational undertaking, to-wit, The Ohio University, and to that end to receive and hold in trust any property real and personal given, devised, bequeathed, given in trust or in any other way made over to the said Corporation for the use or benefit of The Ohio University, or of any student or professor therein as such, or any dependent thereof, or for the carrying on at said institution of any line of work, teaching or investigation, which the donor, grantor, or testator may designate; to invest or disburse all moneys so received, and generally to care for, manage, administer, and control all such property so received, and to carry out the wishes and to see that the funds and property so received are applied to the uses specified by the donors; or, in case the gift, devise or bequest is a general one, then to such uses as research, scholarships, travel, books and other library purposes, buildings, beautification of grounds and such other uses as may be agreed on by the Board of Trustees."

The Fund is governed by a board of trustees of five members, chosen to give balanced representation to the group principally concerned with the success of the Fund. Two members of the governing board are members of the Board of Trustees of the University. Two members are drawn from the administration of the University, one of whom is the President. The fifth member represents the Ohio University Alumni Association.

Members representing the Board of Trustees of the University are elected for three years; those representing the administration, for five years. The alumni member serves for one year and is ineligible for re-election in order that fresh viewpoints among the alumni may be frequently brought to the attention of the governing board.

Contributions should be made payable to The Ohio University Fund, Inc., and sent to the Office of the Associate Director, Ohio University, Athens, Ohio. The Associate Director will be happy to answer inquiries relating to the objects and management of the Fund.

UNIVERSITY REGULATIONS

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UNIVERSITY REGULATIONS

ADMISSIONS

GENERAL ADMISSION INFORMATION. All correspondence pertaining to the admission of a student to the University should be addressed to the Director of Admissions and University Examiner, Ohio University, Athens, Ohio.

Students are accepted for admission to the University for the second semester which begins in February as well as for the fall and summer sessions.

Application for admission consists of the presentation of an application blank filled in by the applicant, official transcripts of all high school or college credit, two small photographs, a vaccination blank certified by a physician, and a medical history blank filled in by the applicant and completed by a physician.

The application blank, photographs, and vaccination blank (showing evidence of vaccination against smallpox within the past five years) should be sent directly to the Director of Admissions.

The medical history blank is to be filled in by the applicant, signed by the applicant's parent and taken to a licensed physician. The physician completes the record and mails it directly to the Director of Health Service, Ohio University, Athens, Ohio. The report shall list all infectious or communicable diseases which the applicant has or has had.

The transcript of high school record can be sent in anytime after the completion of the junior year. If the transcript is sent before graduation, the applicant will be sent a supplementary transcript form to give to the principal of the high school. This supplementary form is to be sent in after graduation. If the applicant is transferring from another university, he must request the registrar of that university to forward an official transcript of college record to the Director of Admissions, Ohio University.

It is important to get all entrance credentials to the Director of Admissions early enough so that the applicant can be informed concerning his admission and the opening of the session in which applicant wishes to enter. If accepted, the applicant will be forwarded information which he will need for registration at the University.

Application for admission to the University does not constitute an application for a room. For information concerning application for living quarters, see section of the catalog under "Housing and Food Service."

PLAN FOR EARLY ADMISSIONS FOR SEPTEMBER, 1951. Because of the uncertainty existing among Ohio high school students concerning admissions to college, Ohio University has adopted a plan of early ad-

missions whereby an applicant who ranks in the upper half of his class can be approved for admission on the basis of a minimum of six semesters (end of the junior year) of high school record.

An applicant when accepted on the six-semester plan may make application for a room reservation to the office of the Director of Student Housing or the Dean of Women and have priority on rooms up until September first of the year before the applicant plans to enter the University. After September first, rooms not so assigned will be open to all applicants.

An out-of-state applicant may be admitted on the basis of a minimum of six semesters if he ranks in the upper half of his high school class. A person thus accepted may apply for a room reservation on the same basis as an Ohio resident.

When a student is accepted on a six-semester record, it is a provisional acceptance with the understanding that the student will graduate from high school with the rank approximating his rank at the end of six semesters.

SUBJECTS IN HIGH SCHOOL. As Ohio University accepts graduates of first-grade high schools in Ohio, no particular pattern of high school subjects is required for admission. However, since prospective students frequently ask what subjects they should take in high school, the following is suggested as a reasonable minimum distribution of subjects which meets the specific University College requirements in so far as it is possible to do so in high school and prepares the student for the pursuit of any curriculum in the University:

English	-----	3 or 4 units
Foreign language	-----	2 units (For students planning degrees in Arts and Science.)
Social sciences	-----	2 units (One of which should be United States history and civics.)
Laboratory sciences	-----	2 units (Biology, botany, zoology, chemistry, or physics preferred. General science and senior science do not meet University College requirements.)
Algebra	-----	1 unit
Plane geometry	-----	1 unit (Additional mathematics is desirable for a student planning to take an engineering course.)
Electives	-----	4 or 5 units
Total	-----	16 units

A student who has not met the specific subject requirements of the University College in high school may make up his deficiencies by taking courses in the University for college credit.

THE TESTING PROGRAM. A student entering Ohio University for the first time pays the testing fee of \$1 to cover the expense of the testing program.

Each undergraduate is required to complete the college ability test. A notice of the date, place, and hour is included in his admission credentials. A student who fails to take the college ability test at the appointed time, or who applies too late to take the test at the appointed time, is required to take the test at a later date and to pay \$1 to cover the expenses incurred. A student transferring to Ohio University from another college is not required to take the test if he has had the Ohio State Psychological Examination at that college and the record of the test is on the transcript of his record from the other college.

In addition to the college ability test, a reading examination and a mathematics achievement test are administered to all freshmen.

The results of these examinations are made available to administrative officers and to members of the faculty to assist them in counseling and advising. A student may learn of his test scores and their significance by contacting the University Testing and Vocational Counseling Service in Room 203, Carnegie Hall.

Additional information regarding the testing programs is given under the heading "Testing and Vocational Counseling Service."

RESIDENTS AND NON-RESIDENTS OF OHIO. The admission regulations and the general registration fee for non-residents of the State of Ohio are higher than for residents of the state. A person is entitled to register as a resident of Ohio who, at the time of first enrollment in the University, has been a resident of the State of Ohio for 12 consecutive months next preceding the date of his original enrollment. No person is considered to have gained or lost residence in the state for the purpose of registering in the University by any conduct of his own while he is a student in the University, unless after attendance at the University for one year it can be clearly established by the student that his previous residence has been abandoned and a new one established in Ohio for purposes other than merely attendance at Ohio University. A person whose legal residence follows that of other persons is considered to have gained or lost legal residence in this state for such purposes while a student in the University according to changes of legal residence of such other persons, except that such legal residence is not considered to be so gained until 12 months after such persons become legal residents of this state.

The residence of minors follows that of the legal guardian, regardless of emancipation; but in case a resident of Ohio is appointed guardian of a non-resident minor, the legal residence of such minor for the purpose of this rule is not considered to be established in the State of Ohio until the expiration of 12 months after such appointment.

APPLICANTS FROM OHIO. All residents of Ohio who are graduates of approved high schools are eligible for admission to the University. However, an applicant who ranks in the lowest fifth of his graduating

class is admitted on *warning*. A student admitted on warning status may not participate in extracurricular activities until his scholastic status warrants it.

An applicant who has completed 15 units of acceptable subjects in an accredited high school and is recommended for admission by his high school principal may be admitted to the University in accordance with the regulations stated above, even though he has not been graduated from high school. High grades are a prerequisite.

Ohio University recognizes the General Educational Development Tests and will admit a veteran who receives a diploma from an accredited Ohio high school on the basis of these tests. However, the applicant may be accepted on *warning* if his test scores are low.

Any applicant, a resident of Ohio, who has attended another university or college and who desires to transfer to Ohio University is considered for admission if he has a 2.0 average in all courses attempted.

APPLICANTS FROM OUT OF THE STATE. An application from an out-of-state student is considered if the applicant ranks in the upper half of his graduating class in an approved high school and qualifies for admission to the state university of his state.

A veteran who ranks above the 50 centile on the General Educational Development Tests (High School Level) may be considered for admission.

A transfer student from out of the state who makes application for admission to any college of the University is considered for admission if he has a 2.5 average (on the Ohio University grade-point system) in all courses attempted in all of his previous college work.

An applicant for admission to Ohio University, whether applying directly from high school or as a transfer, must be eligible to enter his own state university.

CLASSIFICATION. Any transfer student who qualifies for admission according to the present regulations is admitted to the University College with freshman classification if he has less than 25 semester hours of credit and to a degree college if he has 25 semester hours or more. In the latter case he is given classification in accordance with the general rules of Ohio University for the classification of students.

If a student attending another university or college does not wish to transfer to Ohio University but desires to take courses for a session and transfer his credits back to his own college, he may be admitted as a special student on an official statement from his college that he is a student in good standing.

RE-ADMISSION OF FORMER STUDENTS. A student who desires to re-enter Ohio University must file an application to re-enter. An application may be obtained from the Director of Admissions. If a former student has attended another university since leaving Ohio University,

he must request the registrar of the college attended to send an official transcript to the Director of Admissions, Ohio University. A returning student must also present a health certificate.

GRADUATE STUDENTS. Course offerings in some departments will be limited because of the large enrollment of undergraduate students. Accordingly, the transcript of each student's previous work will be examined by the chairman of the department in which the student proposes to do his major work to determine whether the department is likely to have the facilities and courses needed by the student.

Applicants who hold the bachelor's degree from fully-accredited colleges or universities and who have an undergraduate scholastic average of 2.5, or above, will be admitted to the Graduate College on recommendation of the department chairman. Applicants from fully-accredited colleges or universities whose undergraduate scholastic average is below 2.5 and who are recommended for admission by the department chairman will be admitted, provided they make a satisfactory grade on the Graduate Record Examination or achieve a B level (70 percentile rank) on a standard college ability test.

Applicants who hold the bachelor's degree from unaccredited colleges or universities and who have a minimum undergraduate scholastic average of 2.5 will be admitted if they are recommended for admission by the department chairmen and if they make a satisfactory grade on the Graduate Record Examination or achieve a B level (70 percentile rank) on a standard college ability test.

SPECIAL STUDENTS. The following categories of students will be admitted as special students with no class rank:

A student who is over 21 years of age and who has not met all of the entrance requirements may be admitted as a special student but remains unclassified until he has made up high school credits and is regularly admitted to a degree or diploma program.

A student who has a degree and desires to take courses, either undergraduate or graduate, without pursuing another degree.

A student who has been attending another school and wishes to be admitted as a transient. Such a student is admitted upon presentation of a statement of good standing from the school last attended.

A student who has completed 15 units of high school credit, but who has not graduated from high school.

AUDITORS. An applicant who meets the admission requirements and does not desire to enroll for credit may enroll as an auditor. See page 62, "Auditing Privilege," for further information.

ADVANCED STANDING EXAMINATIONS. Application for advanced standing examination is made with the Director of Admissions and University Examiner for any course listed in the current catalog in which

the student desires credit without taking the course in class, provided the course lends itself to an examination. The application must be approved by the chairman of the department and the dean of the college in which the student is classified. Only a student who is enrolled for a minimum of six semester hours as a resident student of Ohio University is eligible to make application. A fee of \$2 is charged for each semester hour.

Credit for the course is granted when a student receives at least a C grade and has completed at least 15 semester hours of credit at Ohio University with a scholastic average of 2.0. If a student who is enrolled for 6 semester hours and who has not completed 15 semester hours is granted permission to take an examination for advanced standing, the credit is withheld until he has earned the required amount.

Any grade received on the examination for advanced standing becomes a part of the student's academic record and is computed in grade point average.

CREDIT EARNED DURING MILITARY SERVICE. A student in military service may receive college credit for college courses completed through the United States Armed Forces Institute when end-of-the-course examinations are passed or when courses are taken in correspondence with accredited colleges.

A student who has completed a course in a military training unit in another college may receive college credit for courses completed in the unit, provided the college in which the military training unit was located gives college credit for the courses and provided the amount of credit is not deemed excessive for the time indicated.

For training completed by veterans in training units other than those offered in the colleges, the recommendations made for college credit by the American Council on Education are followed in most cases. No college credit is given for the General Educational Development Test, college level, unless taken before February, 1950.

A student who has covered the subject matter in certain fields (for example: mathematics, physics, meteorology) during his training period may receive credit in the courses by presenting evidence of having had the courses and by passing satisfactory examinations in the subjects.

CREDIT FOR MILITARY SERVICE. A maximum of 8 semester hours of college credit for basic military training, or 16 semester hours for officer's training, will be granted to a student who, after completing his military service, enrolls in the university. A deduction in the amount of credit allowed is made for those students who have had the equivalent amount in military science or who have received high school credit for military service. After dismissal from service, a certified copy of the Army Separation Qualification Record, WDAGO Form 100, should be presented. The form for the Navy and Coast Guard which is equivalent to the Army Form 100 is Form 553 or 305. A student desiring credit for military service should submit a certified or photostat copy of his Separation Qualification Record at the time he makes application for admission to the University.

FEES AND DEPOSITS*

Official enrollment is completed upon the payment of the fees assessed. Fees are payable at the office of the Treasurer at the time indicated in the schedule of classes which is issued for each semester or session.

REGISTRATION FEES	Resident of Ohio†	Non- Resident
The Semester Session:		
General registration fee for normal load	\$45.00	\$120.00
General academic normal load: 12 to 17 semester hours, inclusive. Engineering normal load: 12 to 19 semester hours, inclusive.**		
Student activity fee	6.50	6.50
Student Union fee	5.00	5.00
Health fee	7.50	7.50
Library fee	1.00	1.00
 Semester total	\$65.00	\$140.00
The Eight-Week Summer Session:		
General registration fee for normal load	\$22.50	\$ 60.00
Normal load: 6 to 9 semester hours, inclusive		
Student activity fee	3.00	3.00
Student Union fee	2.50	2.50
Health fee	3.00	3.00
Library fee	.50	.50
 Total for the summer session	\$31.50	\$ 69.00

Excess and Part-time Loads:

General registration fee for semester and summer sessions:

For each semester hour in excess of normal load __ 3.00

General registration fee for part-time load:

Semester: 1 to 11 semester hours, inclu

Summer: 1 to 5 semester hours, inclusive

or the first semester hour _____

For each additional semester hour _____ 4.00

For each additional semester hour _____ 1.00
Student activity fee, Student Union fee, health fee,

and library fee as above. Graduate students en-

rolled for conference courses are exempt from

paying the health fee. Special students who en-

paying the health fee. Special students who are on roll for not more than six semester hours during

a semester or three semester hours during a sum-

a semester or three semester hours during a summer session are exempt from paying the activity

inner session are exempt from paying the activity, Union, health and library fees.

Union, health and library fees.

io University reserves the right to make, without prior notice, any changes in the regulations of the university.

*Ohio University reserves the right to make, without prior notice, any fee adjustments that may become necessary before the appearance of the next catalog.
+See statement defining legal residence on page 54.

**To be classified an engineering student one must

**To be classified an engineering student one must be enrolled in the College of Applied Science for an engineering degree.

The Post Summer Session:

General registration fee: for the first semester hour	6.00	15.00
For each additional semester hour	6.00	12.00
Library fee	.50	.50

Auditors:

Fees in full as above

Correspondence Study:

Registration fee, each semester hour	6.50	7.50
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Extension Class:

Registration fee, each semester hour	6.00	7.00
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The per hour fee is increased if a class is organized with an enrollment below the required quota.

MUSIC FEES. Registration fees for private instruction in music are assessed in addition to the above registration fees. The fees are indicated in the "Courses of Instruction" under the division of "Applied Music."

MISCELLANEOUS FEES

Bureau of Appointments, renewal of registration	2.00
Certificate of Completion	2.50
Change of College	1.00
Change Order	1.00
Entrance Tests, when not taken at the designated time	1.00
Duplicate Fee Card	.25
Examination for advanced standing, each semester hour	2.00
Grade Report Book (after the first book), maximum	1.00
Grade Report Book Cover (after the first copy)	.25
Grade Report (after one copy)	.25

Graduation—

Application for degree	10.00
Application for a diploma	5.00
Re-application	2.00
Penalty for late application	5.00
Diploma mailing fee for those absent from commencement	2.00
Late registration or late payment of fees	1.00
Each additional day late (after date announced)	1.00
Graduate students taking work on a conference basis, each week late	1.00
Maximum penalty for any session	5.00
R.O.T.C. Deposit Fee	20.00

Testing Fee, for all entering students-----	1.00
Thesis Abstract Printing-----	3.00
Thesis Binding, each copy-----	2.00
Transcript of record, after first transcript request-----	1.00
Transcript of record, each copy after the first copy of a group request -----	.50

LABORATORY FEES. Laboratory fees are indicated in the course descriptions, and are assessed at registration time.

REFUND OF FEES. Voluntary and official withdrawal from the University entitles the student to a refund of a part of the fees according to the following schedule. A refund is made on the student activity fee on the same basis as the other fees, provided the student relinquishes his photo-athletic card. If a student withdraws from the University before he pays his registration fees or before he completes the payment of his registration fees, he is considered indebted to the University for the amount determined according to the refund regulations.

The Semester Session:

1. Within the first and second weeks, 90% refunded
2. Within the third and fourth weeks, 66 $\frac{2}{3}$ % refunded
3. Within the fifth and sixth weeks, 25% refunded
4. After the sixth week, no refund

The Summer Session:

1. Within the first week, 75% refunded
2. Within the second and third weeks, 50% refunded
3. After third week, no refund

The Post Summer Session:

1. Within the first week, 50% refunded
2. After first week, no refund

A week is interpreted to mean a calendar week and ends at noon on Saturday.

No refund is made for a student who is indebted to the University. No refund is made until 30 days after the official withdrawal of the student from the University.

When a student reduces his load from excessive to normal or from normal to part-time, a refund is made according to the foregoing schedule.

When a student withdraws from a laboratory course by change order, a refund of the laboratory fee is made according to the foregoing schedule. A department may disallow refunds if at the time of withdrawal the materials used by the student are of such a nature that the department can make no use of them for another student.

EXPENSE ESTIMATE

The following is an estimate of expenses for one eighteen-week semester at Ohio University:

General registration fee*	\$ 45.00	\$ 45.00
Student activity fee	6.50	6.50
Health fee	7.50	7.50
Student Union fee	5.00	5.00
Library fee	1.00	1.00
Rent of room in dormitory (majority of rooms)	54.00	54.00
Board in dormitory	162.00	144.00
	\$281.00	\$263.00

All of the above expenses are fixed and unavoidable. The estimate does not include the cost of laboratory fees and books which vary with the curriculum being pursued and will amount to around \$25 a semester for the average student.

The real difference in the costs of attending the University is to be found in such maintenance expenditures as those for laundry, clothes, recreation, and other incidentals. These may vary greatly and are determined by the individual's tastes and interests and the amount of his resources.

The University does not make provision for handling student accounts, this service being available through local banks.

REGISTRATION

A knowledge of the general regulations of the University is essential to every student. A student is especially responsible for a knowledge of the registration regulations and for making an accurate and satisfactory schedule. Details concerning the registration procedure are given in the schedule of classes which is obtained at the office of the Registrar before each registration.

PERMITS TO REGISTER. A permit to register must be obtained for each registration. A student enrolled in the University obtains his permit in accordance with regulations announced by the Registrar. A penalty of \$1 is assessed for failure to obtain a permit during the time specified.

A former student obtains a permit to register by calling at the office of the Registrar or by making his request by mail about a month before the opening of the session he wishes to attend.

*The registration fee for a student who is not a resident of Ohio is increased by the non-resident fee. See "Fees and Deposits," page 58.

A new student receives his permit to register by mail with other admission material.

ADVISING AND REGISTRATION. The university calendar printed in the catalog and the schedule of classes issued for each session announces the advising and registration days. The hour and the place for advising and registration are indicated on the permit to register obtained for each session. A student who enrolls after the dates announced is charged \$1 for late registration, with the addition of \$1 for each day late. A student who fails to pay his registration fee according to the days announced is charged \$1 for late payment, with the addition of \$1 for each day late. The maximum late fee in each case is \$5.

A graduate student who enrolls late for work on a conference basis is charged \$1 for each week late.

STUDENT LOAD. A student's normal registration load for a semester is from 12 to 17 semester hours, inclusive, with the exception of an engineering student whose normal load may total 19 semester hours.

Permission to carry more than the normal load may be obtained from the dean of the college in which the student is enrolled.

A student in any college may carry less than a normal load if he desires to do so.

AUDITING PRIVILEGE. At the time he is advised a student may receive permission to audit courses as part of his load. The courses must be marked "Audit" on the schedule and registration cards. The fee for auditing is the same as for credit. Subsequent to registration changes from audit to credit or from credit to audit are made by change order. A student may not audit a course in the session in which he received a WF in the course. See "Change Orders."

REGISTRATION OF AUTOMOBILES. All students operating automobiles while in attendance at Ohio University are required to register them with the office of the Dean of Men. Cars may be registered during the registration process in the library. Any car brought to Athens after Registration Week must be registered within twenty-four (24) hours at the office of the Dean of Men. Failure to comply with this regulation will result in a fine of five dollars (\$5).

CLASSIFICATION OF STUDENTS. A student who has been regularly admitted to the University and who expects to pursue a degree or a diploma course is classified according to the number of semester hours completed and given rank as follows: Freshman, 0-24; Sophomore, 25-54; Junior, 55-86; and Senior, 87 and over.

All other students are unclassified. If an unclassified student has completed 24 or fewer semester hours, he enrolls as a special student in the University College; if he has completed 25 or more semester hours, he registers in the degree college of his choice as a special student. An unclassified student continues to enroll as a special student until he has made up high school credit deficiencies or is regularly admitted to a degree or diploma course.

A student who has earned a degree and desires to register for undergraduate courses without pursuing another degree enrolls as a special student in the degree college from which he was graduated; however, a student who wishes to enroll for a special interest subject only may register in the college offering the course.

A student who has been admitted to the Graduate College enrolls as a special student when he does not wish to pursue a program leading to a degree.

CHANGE ORDERS. When a student finds it necessary to change or correct his registration, he requests a change order in the office of the dean of the college in which he is enrolled. The order does not go into effect until it has been presented to and accepted by the office of the Registrar. The change order fee of \$1 may be assessed by the dean of the college.

Change orders that involve the addition of a course after the close of the third week of the semester cannot be approved.

The following procedure is authorized for making a change order: The student secures a change order form in the dean's office, and, then the student consults the designated departmental representative or the instructor of each course being dropped or added. If the departmental representative or the instructor approves the change, he signs the change order form. If the change is not approved, the reason may be indicated on the change order form or in a separate communication to the dean. The change order form is returned to the dean of the college in which the student is enrolled for approval. After securing the dean's approval, the student deposits the change order form in the office of the Registrar and pays the change order fee when assessed.

Changes correcting mechanical errors in registration during the first week of classes may be approved by the dean of the college following approval of the departmental representative.

When a student withdraws from a course during the first eight weeks of a semester or the first four weeks of the summer session, his grade is recorded W; and the instructor destroys the class card on receipt of a notice from the Registrar.

If a student withdraws from a course during the period from the ninth week through the fourteenth week of the semester or from the fifth to the seventh week of the summer session, his grade is recorded WP if he is passing or WF if he is failing the course at the time of withdrawal. A student who withdraws from a course during this period in which he is failing may not register for the course as an auditor during the session.

A course cannot be dropped by change order after the close of the fourteenth week of the semester or the seventh week of the summer session.

The Registrar notifies the instructor and other officers concerned when a student withdraws from a course. The notice gives the official date of withdrawal.

Exceptions to the above regulations are made only with the approval of the Executive Committee.

The dates marking the close of each period mentioned are shown in the calendar.

CHANGE OF ADDRESS. A student is responsible for any university office communication sent to him at the last address reported to the office of the Registrar. Forms for reporting a change of home or Athens address are available in the Registrar's office.

CHANGE OF COLLEGE. Application for a change of college, the transfer from one degree college to another, is made in the office of the dean in which the student is enrolled and should be made before or during the registration process. The change goes into effect when the application, signed by the two deans concerned, has been presented to the Registrar and the transfer fee, \$1, has been paid. A student is required to fulfill all the requirements of the degree and the college to which he transfers. The change of college, which includes the payment of the transfer fee, must be completed within two weeks after the opening of a session or the student remains in the college in which he was registered until the next session.

WITHDRAWAL. Application for withdrawal from the University is made on a withdrawal form obtained in the office of the dean of the college in which the student is registered. When the request for the withdrawal has been approved by the dean of the college, the order is referred to the Registrar who grants an official withdrawal after it has been determined that all obligations to the University have been met. A refund of registration fees is made according to regulations under "Fees and Deposits."

When a student withdraws from the University during the first eight weeks of the semester or first four weeks of the summer session, his grade is recorded W; and on receipt of notice from the Registrar, the instructor destroys the class card. When a student withdraws from the University following the close of the eighth week of a semester or the fourth week of a summer session, his grade in each course is recorded WP if he is passing or WF if failing at the time of withdrawal.

A student who leaves the University without obtaining an official withdrawal is not permitted a refund of fees and is given F in all courses.

CREDIT. All credit is designated in semester hours. A semester hour is the equivalent of one recitation or two or more laboratory periods a week throughout a semester. In order to receive credit, all students are required to take final examinations. The final examinations are held during the last week of a session and all students are required to take the examinations according to the schedule of examinations posted on the bulletin boards.





The final examination for honors work must be taken before the opening of the regular examination period. For information concerning honors work, refer to "Honors Work Program."

SCHOLARSHIP REGULATIONS

THE GRADING SYSTEM. At the close of a session (either semester or summer) or upon the completion of a course an instructor reports a letter grade indicating the quality of a student's work in the course. Grade points are assigned for each semester hour, except for hours audited, according to the following grading system:

Letter Grade	Explanation	Grade Points
		Per Semester Hour
A	Very high	4
B	High	3
C	Average	2
D	Passing but low	1
F	Failure	0*
I	Incomplete	0*
W	Withdrawn	—**
WP	Withdrawn Passing	—**
WF	Withdrawn Failing	0*
Cr	Credit without grade	—**

An "I" grade is given to a student who has a relatively small part of the session's work not completed because of illness or other reason beyond the student's control as verified by the Dean of Men or the Dean of Women, or for some reason acceptable to the dean of the college in which the student is enrolled. An "I" grade is not given to a student whose class grade is below passing. To remove an "I" grade the student must, by arrangement with the instructor, complete the work of the course within six weeks after the opening of the next semester the student is in residence. An extension of time for the removal of an "I" grade may be recommended by the Dean of Men or the Dean of Women for illness or for other reason.

When a course is repeated, both the original and repeated semester hours and grade points become a part of the student's permanent and cumulative record and are included in the total of hours attempted and grade points earned respectively.

To meet the minimum standard required for graduation from Ohio University, a student must earn twice as many grade points as hours attempted. Candidates for degrees in engineering must have in addition a 2.0 (C) average in all engineering subjects. For a transfer student, this rule applies to both his cumulative record, which includes transferred credits, and to his Ohio University record exclusive of transferred credits.

*Hours are included in total hours attempted.

**Hours are not included in total hours attempted.

GRADE-POINT DEFICIENCY. When the total grade points are less than twice the number of hours attempted, a grade-point deficiency exists. A student's *grade-point deficiency* is found by subtracting the total grade points accumulated from two times the number of hours attempted. Thus, a student who has attempted a total of 31 semester hours and earned 48 grade points has a grade-point deficiency of 14.

At the close of each session the record of every student is reviewed. If a student's cumulative record shows a grade-point deficiency, he is subject to being placed on probation or dropped from the University. In general, action will be taken in accordance with the following regulations:

PROBATION. A student who has attempted fewer than 30 hours is placed on scholastic probation when his grade-point deficiency is greater than half the number of hours attempted. A student who has attempted 30 hours or more is placed on scholastic probation when his grade-point deficiency is greater than 15 grade points.

PROBATION REMOVED. If a student on probation has attempted a total of fewer than 30 hours and his grade-point deficiency is not greater than half the total hours attempted, probation status is removed. If a student on probation has attempted 30 hours or more and his grade-point deficiency is not greater than 15 grade points, probation status is removed.

PROBATION CONTINUED. A student who has been on probation for one session may be continued on probation for one additional session if his grade-point deficiency has not increased and he is not eligible to be removed from probation. However, at the close of this additional session he must be eligible for removal from probation status or he will be dropped from the University.

DROPPED FROM THE UNIVERSITY. A student on probation is dropped from the University if his grade-point deficiency has increased and he is not eligible to be removed from probation status.

Any student, whether he has been on probation or not, whose grade-point deficiency at any time exceeds the number of hours attempted will be dropped from the University.

The Executive Committee may drop, impose probation, or grant reinstatement when circumstances appear to justify special action.

At the close of each session any action taken as the result of poor scholarship is indicated on the grade report which is mailed to the student. A notice is also sent by the Registrar to the student's parent or guardian.

GRADE REPORTS. Grade reports are mailed to each student immediately after the close of a session. A carbon copy of the grade report is sent to the dean of the college in which the student is enrolled and to the Dean of Men or the Dean of Women. A request for a duplicate grade report must be accompanied by 25 cents.

At the end of the seventh and thirteenth weeks, grades for freshmen are reported to the Dean of the University College. The grades are available to the student through his counselor. The Dean of the University College sends a notice of warning at the close of each grade reporting period to the student and his parents when the student has an average below 1.5, or 2.0 in case the student is on probation.

At midsemester, reports of low standing in class are mailed by the office of the Registrar to all degree college students.

When a student's cumulative average falls below 2.0 a notice is sent by the dean of the degree college in which the student is enrolled to the student and to his parents.

TRANSCRIPTS. A photostat copy of a student's record is issued by the office of the Registrar as an official transcript. Transcripts are made only upon request. Each student is entitled to one copy free of charge before graduation and one copy free of charge, after graduation. A transcript requested after either of the free copies has been issued costs \$1. The transcript fee must accompany the transcript request.

When a request is made for more than one transcript at one time, the first copy may be free or cost \$1, depending upon whether the student has obtained his free copy, and the additional copies of the request cost 50 cents each. In order to avoid delay, the correct fee should accompany the request.

A transcript carries a statement of honorable dismissal except when a student has been dropped from the University because of poor scholarship, nonpayment of fees, or unsatisfactory conduct. A student on scholastic probation is granted a statement of honorable dismissal only as to character.

The same transcript fee regulations pertain to a student enrolled in the Graduate College with the following exceptions: a graduate of Ohio University who has received a free copy of his undergraduate credit after graduation is required to pay \$1 for a transcript if, as a graduate student, his first request for a transcript includes both undergraduate and graduate credit.

HONORS

DEAN'S LIST. The Dean's List, compiled at the close of each session, includes the names of all freshmen who have at least a 3.0 average on a minimum total of 15 semester hours of credit.

HONORS DAY. The Honors Day Convocation, usually held in April, is for the purpose of honoring students who have attained a high scholastic average. The names of all undergraduate students who have attained a 3.0 (B) average on a minimum total of 15 semester hours at Ohio University are listed in the Honors Day Program. Transfer stu-

dents who have the necessary average at Ohio University as well as on their cumulative record are also honored. The names of students who rank in the highest ten per cent of their class are starred; the names of those who rank in the highest one per cent are double starred. Graduate students are likewise honored if they have attained at least a 3.5 (B⁺) average on a minimum of 12 semester hours credit earned in residence.

The student who attains these honors will have an indication of them on his record and on the transcript of his record.

ABSENCES

ABSENCE POLICY. A student at Ohio University is expected to attend all meetings of his classes. At the discretion of the instructor, a student may be placed on class probation for excessive absence. Probation of this kind implies that if the student has one additional unexcused absence, he will automatically receive an "F" in the course. Faculty members request the Dean of Men or the Dean of Women to place the student on class probation, and the Dean of Men or the Dean of Women notifies in writing the student, the Registrar, the dean of the respective college, and the faculty member who made the request.

IRREGULAR ATTENDANCE. The Dean of Men and the Dean of Women are interested in following up irregular and excessive absences; many times an excessive absence report is the first indication that a student is in trouble outside the classroom. Members of the faculty will report to the Dean of Men or the Dean of Women absences under the following conditions: (a) frequent tardiness; (b) frequent absence on any one day of the week; (c) absence from so many meetings of the class that academic work is affected; and (d) absence from class on the two days preceding and following official vacation periods.

EXCUSE FOR ABSENCE. All class absences are handled by the individual faculty member concerned, with the following exceptions:

1. All cases of student illness are excusable upon certification by the Student Health Service.
2. Students may be excused for absences due to trips in connection with authorized university activities. The personnel deans will act as a clearing house for these excuses.
3. On days of announced examinations excuses will be granted by the Dean of Men or the Dean of Women for the following reasons: illness; death in the family; wedding in the immediate family; trips in connection with authorized educational and university activities; other educational trips, appointments, meetings, and extracurricular activities approved by the Dean of Men and the Dean of Women.
4. Excuses for the two days preceding and following official vacation periods (penalty absences) will be granted by the Dean of Men and the Dean of Women.

Excuses must be obtained not later than one week after the first class meeting which the student attends following the absence. *An excused absence does not relieve the student of the responsibility of making up work missed.*

Excuses for absence on final examination dates are obtainable from the Dean of Men or the Dean of Women.

UNEXCUSED ABSENCES BEFORE AND AFTER VACATION. Faculty members are responsible for reporting to the Dean of Men and the Dean of Women all absences before and after vacation periods. A penalty of one semester hour is added to the requirements for graduation for an unexcused absence in the last scheduled class preceding a vacation and the first scheduled class period following a vacation.

If a student is absent from all class periods on the day immediately preceding a vacation and the last class period on the second day preceding a vacation, he is penalized two semester hours. The same penalty applies to the two days immediately following an approved vacation. A total of four semester hours may, therefore, be added to any one student's graduation requirements for absences incurred at any one holiday period.

GRADUATION

APPLICATION. A candidate for graduation must make application for graduation in the office of the Registrar not later than the dates given in the university calendar for the session in which he plans to graduate. The application fee for a degree is \$10; for a diploma, \$5. Application for graduation made after the time designated adds a penalty of \$5. Payment of the diploma fee after the stated dates constitutes late application and requires the payment of the late penalty fee of \$5.

If an applicant fails to meet the requirements for graduation, he may reapply after he has fulfilled, or planned to fulfill, his requirements. In either case, reapplication is made in the office of the Registrar according to the dates given in the university calendar for the session in which he plans to graduate. The reapplication fee is \$2. The penalty fee of \$5 is added for late reapplication.

SCHOLASTIC AVERAGE. A student is required to have a scholastic average—a point-hour ratio—of 2.0 on all hours attempted. Candidates for a degree in engineering are also required to have a 2.0 (C) average in all engineering subjects. A transfer student is required to have a scholastic average of 2.0 on all hours attempted at Ohio University, and, in addition, a 2.0 average on his cumulative record.

The minimum number of semester hours required is increased by the number of hours received as a penalty for excess absences before or after a holiday vacation, by the number of hours of repeated subjects, by the number of hours in courses not allowed toward a degree by

catalog designation or by the dean of the college, and may be increased by the number of semester hours earned in excess of 4 semester hours credit in physical activity courses.

PROFICIENCY IN ENGLISH. As a condition of graduation from Ohio University, every student must demonstrate his ability to write clear, correct, and forceful English. Three composition courses at the freshman level, English 1, 3, and 4, are designed to assist the student in developing this ability. On entering the University, freshmen are given a placement test in English. Those who show a weakness in the elements of grammar and sentence structure are required to take English 1 without credit toward graduation.

A student is required to take the English proficiency test the first time it is given after his record shows a total of 45 semester hours of credit, regardless of the date when he first entered the University. A transfer student who presents from 45 to 60 semester hours of credit takes the test during his first semester in residence. Only students whose cumulative record on September 19, 1949, showed 61 or more semester hours of credit earned at Ohio University or at another college are excused from the requirement.

The proficiency test is offered each semester. It will consist of a few paragraphs of prose written on a subject chosen by the student from a list of subjects submitted by selected staff members from different departments of the University. The papers will be marked "Passed" or "Failed."

The student who fails will be expected to take remedial work in English and present himself again for the test. Such a student will be urged to take advantage of the English clinic which is operated by the Department of English. The clinic is open two hours each morning and afternoon from Monday through Friday throughout each semester of the academic year.

Any junior, senior, or graduate student who considers himself weak in English may go to the English clinic for counsel and assistance.* Any student in the University of junior rank or above who is found by his instructor to be weak in English is to be reported to his dean and requested to go to the clinic for remedial work.

PHYSICAL EDUCATION. Men students have a flexible requirement of one to four (1-4) semesters with credit. The number of semesters required is determined by the results of physical proficiency and sports tests which are offered at pre-registration periods and near the close of each semester and summer session. After completing one semester with credit, the student may elect to try physical proficiency tests or continue to register for additional credit. Having passed testing standards prescribed by the Division, the student is excused from further requirement. He may, however, elect to take additional semesters in physical education service courses.

*This does not include the supervision or correction of masters' theses.

Women students are required to complete two years of physical education with a total of four semester hours of credit.

EXEMPTIONS, EXCUSES, AND DEFERMENTS. Exemptions, excuses, and deferments are allowed for both men and women as follows:

Exemption from the physical education requirement is made automatically for a graduate student, for a student who is 30 years of age or over, or for a veteran who is 25 years of age or over, provided he has completed the requirement up to and including the semester in which he attained the required age.

An excuse from the physical education requirement is granted to a permanently disabled student by the Director of Physical Education upon the recommendation of the Director of the Health Center.

Deferment—postponement for one semester—is authorized by the Director of Physical Education upon the recommendation of the Dean of Men or the Dean of Women for a student who has an excessive physical load in connection with part-time work or by the student's academic dean in cases of serious scheduling conflicts. Any student who is granted a deferment in physical education courses must complete the requirement he otherwise would have had to meet without deferment, before graduation.

R.O.T.C. The completion of a two-year basic course becomes a prerequisite for graduation for a student who elects R.O.T.C. training, unless the student is relieved of this obligation either by the Secretary of the Army or the Air Force. R.O.T.C. credit does not increase the total semester hours for graduation, provided the student utilizes his curriculum elective hours for this credit. See "R.O.T.C. Division."

RESIDENCE. In general the minimum residence requirement for a degree or a diploma course is two semesters or the equivalent in summer sessions which should total not fewer than 30 weeks with the completion of a minimum of 30 semester hours. If a student spends the minimum of 30 weeks, or less than 45 weeks with the completion of 45 semester hours, in residence, the 30 weeks must be the final weeks before graduation.

If a student spends 45 weeks or more in residence with the completion of a minimum of 45 semester hours, his last residence may be reduced to 15 weeks with the completion of 15 semester hours.

If a student begins graduate study before he completes all requirements for a bachelor's degree, residence for the bachelor's degree will be reduced by as many weeks as credit hours of graduate work completed. The number of weeks subtracted will be credited toward the residence requirement for a master's degree if the credit is acceptable in the program approved for graduate work toward a degree. Residence used for meeting requirements for one or more bachelor's degrees may not be used for meeting the residence requirements for a master's degree.

The residence regulations apply to a student who has been approved for graduation in absentia and is completing his last year in an accredited professional school, except that the regulations apply to his residence before he leaves the University to attend the professional school.

An exception to the final semester or final year of residence may be made in the case of a student who has otherwise met the minimum residence requirement and who has completed all but 6 semester hours, or fewer, required for a degree, provided he has a 2.0 average, or better, at Ohio University and on his cumulative record. When this occurs a student may complete the final semester hours, 6 or fewer, at another institution, or by extension or correspondence study at Ohio University.

A student who presents residence work at an Ohio University Branch toward the residence requirement is nevertheless required to spend his last 15 weeks of residence on the Athens Campus with the completion of a minimum of 15 semester hours.

Saturday and evening class credit may be used to satisfy the residence requirements in combination with one semester or several summer sessions. The number of weeks residence for part-time students enrolled in Saturday, evening, and day classes is determined by the number of hours of credit allowed for the course.

Credit earned in the Extension Division, whether in extension classes or in correspondence study, does not count toward the fulfillment of the residence requirement.

IN ABSENTIA. In absentia permission is obtained from the dean of the college in which the student is enrolled. Application for graduation in absentia must be made by a student in the office of the Registrar not later than the date indicated in the university calendar at the opening of the semester in which he expects to graduate. To obtain his bachelor's degree a student who has been approved for the senior-in-absentia privilege in an approved professional school is required to present an official transcript from the school, and a statement from the dean of the school certifying that he has satisfactorily completed a full year's work and is eligible for advancement to the second year. The transcript and certificate must be in the office of the Director of Admissions and University Examiner two weeks before the commencement date, or an explanation must be sent to the Registrar.

A student graduating in absentia is excused from attending commencement exercises and is exempt from being in residence immediately preceding commencement in accordance with residence rules stated above.

TIME LIMIT. A student first registers for a bachelor's degree when he enrolls in a degree college, after he has been released or advanced from the University College, and may secure that degree by fulfilling the requirements as outlined in the catalog of the year in which he first registered in the University. A student who does not complete the degree requirements within the usual three years spent in a degree college may

be allowed to fulfill the same requirements at a later date, provided he completes them within seven years after his first enrollment in the University. A transfer student is governed by the same regulations, except that the number of years in which to complete the degree requirements is reduced by the number of years of transferred work.

GRADUATION WITH HONOR. A candidate for the bachelor's degree who is graduated with a scholastic average between 3.0 and 3.5 is distinguished on the commencement program by the notation "with honor"; with 3.5 or above, by the notation "with high honor." A transfer student is similarly distinguished if both his Ohio University record and his cumulative record meet the requirement.

A candidate who has successfully completed a program of study in honors work is, in addition, distinguished on the commencement program by the notation "with honors in -----," with the indication of the field in which he has achieved distinction.

HONORS WORK PROGRAM. Honors work is offered to give a superior student such freedom as will enable him to pursue the study of his chosen field as rapidly as his talents permit. Among the objectives of such work are the acquisition of knowledge of a chosen field, the integration of a knowledge of one field with that of related fields, the development of the ability to carry on independent investigation and research, the enhancement of skill in expressing in writing the results of reading or investigation, and the development of creative talents.

Students who have attained a scholarship quotient of 3.0 or better and possess a talent to work independently may become candidates for a degree with honors in their chosen field of study. Application is made during the junior year or at the beginning of the senior year to the committee on honors work. The committee, with the approval of the student's dean and in consultation with the student's departmental chairman or director, assigns the student to the instructor who will serve as the student's tutor in honors work.

At the beginning of each semester, the student files with the committee a brief plan of his program of honors work for the semester. Near the close of the semester, he files with the committee a general statement of work accomplished and a report dealing with his reading, laboratory work, or project. At the close of the senior year, a final essay, laboratory report, or completed creative project is submitted to the committee. At the end of each semester a grade for the honors work is sent to the Registrar by the tutor. A student registered for honors work who at the end of any semester has not maintained a scholarship quotient of 3.0 or who has received a grade below B in his honors work is dropped as a candidate for special honors but receives course credit.

All general requirements for the degree sought by the student will be fulfilled either before or while the student is registered in honors work. An honors student may register for from three to eight semester hours of honors work each semester as a part of his student load. Such work may be done tutorially, in special seminars of honors students, or in courses numbered in the 300 group.

A final examination in the field studied is given before the opening of the final examination period. A student who does not secure a grade of B in the final examination is disqualified for special honors in the field but retains any credit earned by his honors work. Candidates for the degree with honors will be distinguished from other graduates in the commencement program.

COMMENCEMENT. Degrees and diplomas are granted at the end of each session. Commencement exercises are held at the end of each semester, and at the end of the summer session. Attendance at graduation exercises is required in academic costume. Students who have been granted permission to graduate in absentia are excused from attendance; other candidates, due to unusual circumstances, may need to request absence. Application for excuse is made with the dean of the college. The application form which is filed with the Registrar includes instructions for the mailing of the diploma and carries a diploma handling charge of \$2.

A SECOND BACHELOR'S DEGREE. A student who desires two bachelor's degrees may meet the requirements for them either simultaneously or successively by the following procedure:

(a) If a student desires to complete the requirements for the two degrees simultaneously and have the degrees conferred on the same date, he must meet the particular subject requirements for both degrees; earn a minimum of 154 semester hours approved for the degrees with a 2.0 scholastic average, both on Ohio University work as well as on the total hours, when credit has been transferred from another school; and must have completed a total of 9 semesters of college work or its equivalent, with a minimum of three semesters of residence, or the equivalent, at Ohio University. When the two degrees are offered by different colleges, the student must register in both colleges during the session in which the degrees are to be conferred.

(b) If a student has met the requirements for two degrees as indicated above and desires to have the degrees conferred in successive semesters, he may do so without further credit or residence. That is, a student may have one degree conferred at the end of one semester or summer session and may make application for the second degree at a subsequent session. If the session closes with commencement exercises, the student will be required to attend in academic costume unless his application for excuse from commencement is approved.

(c) If a student desires to take a second bachelor's degree after he has received his first, he must complete the subject requirements for the second bachelor's degree, earn a minimum of 30 acceptable semester hours beyond the requirements for the first degree with a scholastic average of 2.0, and have at least an additional semester of residence, or equivalent, in the college offering the second degree with the completion of at least 15 acceptable semester hours.

The above provisions are subject to the regulations on residence as stated in the catalog.

THE UNIVERSITY COLLEGE

GEORGE W. STARCHER

DEAN

Basic preparation
for admission
to each of the
degree-granting
colleges

THE UNIVERSITY COLLEGE

All freshmen enroll in the University College. Thus, the College is concerned primarily with the problems of first-year students — their courses of study, and their guidance during the period of transition from high school to college. The freshman year in the University College and the following three years in one of the degree colleges represent the normal time required for completion of any of the baccalaureate degree programs.

During the first week of a semester, designated as "Freshman Week," the University College conducts a program of orientation for freshmen. All new students are required to attend Freshman Week activities. Various tests are given to assist counselors and students in the selection of courses and educational objectives. Meetings are held during the week to help students become acquainted with the University — its history and traditions, regulations, opportunities for development, and student activities and organizations. A Freshman Week Program is sent to all new students just prior to the opening of each session. It includes the program for the week, giving the exact time and place of all events scheduled.

The University College aims to provide an educational program that will best meet the individual needs of the student. No prescribed course of study is required of all. The courses in the freshman year are planned so as to provide studies that are generally recognized as most essential to the educated person. Students are advised to consider it a year of broad preparation for later specialization. General course requirements for each student are determined so as to complement the work done in high school and so as to take into account the educational objective of the student.

General requirements of the University College are determined as follows:

1. English Composition—Eng. 3-4.

The University College is concerned to have all students achieve proficiency in fundamentals of English and expression. Normally, students may complete the requirements by taking Eng. 3-4. Those who place low on the English Placement Test given all entering freshmen take Eng. 1, three hours a week, then complete Eng. 3-4 in their second and third semesters in the University. Credit earned in Eng. 1 is added to the requirements for graduation.

Students who demonstrate superior ability on the Placement Test will be registered in an Honor Section providing suitable writing practice. At the end of a semester they may continue with Eng. 4 or, in exceptional cases, in a sophomore writing class.

2. Fundamentals of Speech—Speech 1.

Required of all entering students in the second semester of the freshman year except for those who are excused on the basis of a placement examination given by appointment.

3. Physical Education—P. E. 1-2.

For detailed statement concerning this requirement see page 70.

4. One Year in Each of Two of the Following Groups and Completion of the Requirement, If Any, As Indicated for Each Group:

- A. *Humanities*: (a) A foreign language; (b) Phil. 1—Principles of Reasoning, and Phil. 2—Life's Meaning and Moral Philosophies; (c) F. A. 17-18—Introduction to the Fine Arts.
Students with less than two years of foreign language in high school are required to take a year in one subject in the Humanities group.
- B. *Mathematics*: Elementary Algebra, Plane Geometry, Solid Geometry, Intermediate Algebra, Freshman Mathematics, and Mathematics of Finance.
Students who have had no algebra or plane geometry in high school take Math. 1—Elementary Algebra, and Math. 3—Plane Geometry. Students who have had one year of algebra and no plane geometry take Math 3.
- C. *Natural Sciences*: Astronomy, Botany, Chemistry, Geology, Physics, Zoology.
Students with less than two full years of laboratory science in high school take a year in one science. (High school courses such as general science and senior science are excluded.)
- D. *Social Science*: Economics, Geography, Government, History, Psychology, Sociology.
Students are required to have two years in any combination of courses taken in high school.

The student normally plans his schedule so as to complete these requirements in the freshman year. The student who has chosen the degree course he wishes ultimately to pursue is advised to select courses from among those offered in the four groups that are especially recommended for the particular curriculum he expects to follow. The student who has not decided upon the course he may wish ultimately to pursue will find that the University College program affords him an opportunity to explore various fields of knowledge so that a wiser final choice may be made. No student's schedule may include more than five semester hours in courses not included in the general requirements or in one of the four groups.

GUIDANCE PROGRAM. The guidance program aims to encourage individual initiative and increasing assumption of responsibility by the students. Every student is assigned to a counselor, usually a member of the faculty selected from the division of the University in which the student is chiefly interested. Throughout the year the student is expected to confer with his counselor from time to time as occasion demands. All freshmen are required to report to their counselors at the close of the seventh and thirteenth weeks of the semester to receive and discuss their grade reports.

RELEASE TO DEGREE COLLEGE. When a student has 25 semester hours of credit, exclusive of credit for military service, has completed all University College requirements, and is not on probation, he is released to the degree college of his choice. When a student has 25 semester hours, exclusive of credit for military service, and is not on probation, but has not completed all University College course requirements, he is advanced to the degree college of his choice. His release to the degree college is subject to completion of all remaining course requirements.

REGISTRATION. All entering freshmen must register and participate in the orientation program, September 18-24, 1950. A copy of the complete schedule of events is mailed to each new student before registration. Announcements for registration in the second semester and

summer session are made to students registered in the College directly by mail and through the student newspaper, the *Ohio University Post*.

TERMINAL PROGRAMS. The University College makes possible two plans of study for those students who do not intend to pursue a four-year degree program or who can spend only one or two years in the University. One leads to the Associate in Arts diploma at the end of two years, the other provides elective studies for one or two years.

A student whose record indicates that it is doubtful whether he can successfully complete a four-year degree program is strongly advised to register for a terminal program.

Before he registers for either type of terminal program, the student confers with his counselor and prepares a statement giving his educational objective, or an outline of the courses he proposes to take, with the reasons for his choice. The Dean of the University College approves the plan for a terminal program when he is satisfied that the best interests of the student are being served by that particular program.

Credit for courses taken while enrolled in one of the terminal programs may be counted toward a four-year degree course subject to approval of the dean of the degree college in which the student later enrolls. A student who later transfers to a degree college after having been enrolled in one of the terminal programs is required to complete all University College course requirements. A student who is considering pursuing a four-year degree program at a later time is advised to enroll as a regular student rather than attempting one of the terminal programs first. A student who transfers from a terminal program to one of the degree colleges may expect to spend more time completing degree requirements than is normally required since some courses taken in a terminal program may not be accepted toward degree requirements.

ASSOCIATE IN ARTS. The Associate in Arts diploma is awarded to a student after completion of a two-year program planned to include English composition, physical education, speech, general education courses and career courses to make a total of 62 hours, with a minimum of 124 grade points. Diplomas are awarded at the regular commencement exercises. Application for the diploma is made at the office of the Registrar at the time announced for all degree and diploma candidates to apply and must be accompanied by a fee of \$5.

ELECTIVE STUDIES. There are no rigid course requirements for all students registered in elective studies although certain courses may be recommended or required for an individual student on the basis of his interests, abilities, and plans for the future. Such students do not intend to pursue a degree, but they must have a reasonably well-defined purpose that can be met by pursuing courses in college. After completion of a minimum of 25 semester hours of work in Ohio University, the student is eligible to receive a certificate of completion issued by the Registrar, upon request, accompanied by a fee of \$2.50. This certificate contains a statement of dates of attendance and a list of courses successfully completed at Ohio University.

Those who plan to follow either plan should write for the special bulletin on "Terminal Programs of Study."

THE COLLEGE OF APPLIED SCIENCE

E. J. TAYLOR, JR.

DEAN

Engineering

Civil
Electrical
Engineering Drawing
Industrial
Mechanical

Industrial Arts

Printing Administration

THE SCHOOL OF HOME ECONOMICS

VIVIAN M. ROBERTS, DIRECTOR

Child Development and Family Living

Clothing and Textiles

Foods and Nutrition

Home Economics Education

Home Furnishing, Equipment and Management

THE COLLEGE OF APPLIED SCIENCE

The College of Applied Science offers curricula leading to the Bachelor of Science degree in the fields of engineering and home economics. Also under supervision of the College are the non-degree departments of engineering drawing and industrial arts.

Candidates for degrees must fulfill the general graduation requirements of the University (see page 69). Candidates for degrees in home economics must complete a minimum of 124 semester hours, plus any physical education requirement in excess of 4 hours, with a point-hour ratio of 2.0 in all hours attempted. Candidates for degrees in engineering must complete a minimum of 140 semester hours, plus any physical education requirement in excess of 4 hours, with a point-hour ratio of 2.0 in all hours attempted and a point-hour ratio of 2.0 in all engineering subjects attempted. Total hours specified for any degree include the requirements of the University College.

STUDENTS WHO DESIRE TO TEACH. Students who desire to teach industrial arts or home economics may enroll for the degree of Bachelor of Science in Education offered by the College of Education. Students who enroll in the College of Applied Science may complete the requirements for the degree of Bachelor of Science in Home Economics and secure a teaching certificate by satisfying the requirements in education specified by the State Department of Education for the field in which the student desires to teach. Requirements of the State Department of Education are listed under the heading "Teaching Certificates" on page 134.

ENGINEERING

Engineering curricula leading to the Bachelor of Science degree in the respective field are offered in Architectural Engineering, Civil Engineering (including an Aeronautical Structural Engineering Option), Electrical Engineering, Industrial Engineering, and Mechanical Engineering.

A four-year engineering program is necessarily limited in the time which may be devoted to study in other colleges of the University. In order to give the student some freedom in planning his course of study, all but six of the elective hours in the engineering curricula are unrestricted. As a background in English, history, government, economics, and human relations is essential for the engineer who hopes to go far in his profession, the student is urged to plan, in consultation with his adviser, a program in these fields. It is also recommended that the student consider the advisability of additional work during the summer so that he may have ample time for a broad education. With proper planning the student may obtain a degree from the College of Arts and Sciences at the end of seven semesters (or six semesters and two summers) in the University, followed by a Bachelor of Science in an engineering field upon the completion of two additional semesters (see page 74).

Students who intend to follow an engineering curriculum should plan to present for admission to the University those subjects which meet the area requirements of the University College, especially the minimum of one year each in algebra and geometry required in the area of mathematics (see page 77). Students should indicate their choice of an engineering curriculum on the official application form for admission to the University. This precaution will assure proper guidance in the University College program of study.

CURRICULA IN ENGINEERING

A student whose point-hour ratio is less than 2.0 for the second semester of the freshman year, or who receives a grade lower than C in the mathematics course taken during the second semester of the freshman year, is admitted to an engineering program *on warning*. Such a student remains on warning until the end of the first semester in which he achieves a point-hour ratio of 2.0.

The university requirements pertaining to English composition, physical education, and speech are not indicated in the engineering curricula which follow. See pages 70 and 76.

Restricted electives must be selected from an approved list of subjects in one or more of the following areas: economics, geography, government, history, human relations, philosophy, psychology, and sociology. The student may elect to take more than the restricted six semester hours in the approved areas. Restricted electives need not necessarily be taken in the semester in which they appear in the curricula. Courses taken to satisfy University College requirements are not considered as fulfilling the restricted elective requirement. ROTC credit may be used to satisfy elective requirements in all engineering curricula.

Freshman Program (For all engineers)

The University College program should include:

First Semester	Hours	Second Semester	Hours
Chem. 1 or 3—General Chemistry	4	Chem. 2 or 4—General Chemistry	4
E. D. 1—Engineering Drawing	2	E. D. 2—Engineering Drawing*	2
Math. 5—Freshman Mathematics	5	Math. 6—Freshman Mathematics	5
		Engr. 1—Engineering Orientation	1

BACHELOR OF SCIENCE IN ARCHITECTURAL ENGINEERING

The curriculum for this degree is planned to give the student a broad fundamental background in architecture and structural engineering. The elective hours of study may be used to increase either the engineering or architectural content of the curriculum, or to broaden it by study in other divisions of the University.

Freshman Program (See above)

Sophomore Program

First Semester	Hours	Second Semester	Hours
Math. 117—Differential Calculus	4	Math. 118—Integral Calculus	4
Phys. 113—General Physics	4	Phys. 114—General Physics	4
E. D. 3—The Slide Rule	1	C. E. 10—Plane Surveying	3
E. D. 101—Descriptive Geometry	3	C. E. 121—Applied Mechanics	3
Paint. 45—Methods in Representation	2	Arch. 56—Fundamentals of	
Arch. 55—Fundamentals of Architecture	3	Architecture	3

*May be omitted by architectural engineers

Junior Program

C. E. 124—Strength of Materials	3	C. E. 177—Engineering Economy	3
C. E. 126—Testing Laboratory	1	C. E. 230—Structural Analysis	4
C. E. 130—Structural Analysis	4	Arch. 156—Architectural Design	5
Arch. 155—Architectural Design	5	F. A. 176—History of Architecture	3
F. A. 175—History of Architecture	3	Electives	3
Electives	3		
			18
	19		

Senior Program

C. E. 131—Structural Design	4	C. E. 129—Soil Mechanics	3
Arch. 179—Architectural Materials	3	C. E. 132—Civil Engineering Structures	4
Bus. L. 159—Business Law	3	Arch. 183—Architectural Equipment	3
Electives	5	Electives	5
Restricted elective	3	Restricted elective	3
	18		18

Suggested Electives:

Arch. 184—Working Drawings	2	E. E. 225—Acoustics	3
Arch. 185-186—Architectural Problems	6	M. E. 105—Thermodynamics	3
E. E. 129-130—Circuits and Machinery	6	E. D. 102—Descriptive Geometry	2
E. E. 233—Illuminating Engineering	3		

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

The curriculum for this degree is planned to give the fundamental training necessary to a broad understanding of the profession. The following fields are studied: structures and foundations, hydraulics, highway and railroad layout and construction, water supply and sanitation, and surveying. Courses which discuss the economic and legal aspects of engineering also are required. Although the program is comprehensive, it allows the student elective hours of study during the last two years. By a proper choice of these electives he may extend his study of one or more of the several fields discussed above or he may pursue further the business aspects of engineering, or he may broaden himself in a more general way by a judicious selection of courses in various divisions of the University.

Freshman Program
(See page 81)

Sophomore Program

First Semester	Hours	Second Semester	Hours
Math. 117—Differential Calculus	4	Math. 118—Integral Calculus	4
Phys. 113—General Physics	4	Phys. 114—General Physics	4
Geol. 133—Engineering Geology	3	C. E. 10—Plane Surveying	3
E. D. 3—The Slide Rule	1	C. E. 121—Applied Mechanics	3
E. D. 101—Descriptive Geometry	3	Restricted elective	3
Restricted elective	3		
	18		17

Junior Program

C. E. 110—Topographic Surveying	2	C. E. 122—Applied Mechanics	2
C. E. 124—Strength of Materials	3	C. E. 141—Fluid Mechanics	3
C. E. 126—Testing Laboratory	1	C. E. 177—Engineering Economy	3
C. E. 130—Structural Analysis	4	C. E. 230—Structural Analysis	4
E. E. 129—Circuits and Machinery	3	E. E. 130—Circuits and Machinery	3
Math. 215—Differential Equations	3	Electives	3
Electives	3		
	19		18

Senior Program

C. E. 111—Route Surveying	2	C. E. 129—Soil Mechanics	3
C. E. 131—Structural Design	4	C. E. 132—Civil Engineering Structures	4
C. E. 151—Route Engineering	3	C. E. 142—Sanitary Engineering	4
C. E. 202—Hydrology	3	C. E. 152—Highway Engineering	2
Bus. L. 159—Business Law	3	Electives	5
Electives	3		

General

Suggested Electives:

C. E. 211—Photogrammetry	3	Astron. 11—Elementary Astronomy	3
C. E. 213—Advanced Surveying Problems	2	M. E. 106—Steam Power Engineering	3
M. E. 105—Thermodynamics	3	Geog. 132—Conservation of Natural	
E. D. 102—Descriptive Geometry	2	Resources	3

Sanitary Engineering

Chem. 107—Quantitative Analysis	4	Zool. 141—Elementary Bacteriology	4
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Structural Engineering

C. E. 183—Aircraft Structures	4	C. E. 225—Mechanical Vibrations	3
C. E. 224—Advanced Strength of Materials	3	Math. 204—Advanced Calculus	3

AERONAUTICAL STRUCTURAL ENGINEERING OPTION

The following curriculum, presented as an option under civil engineering, is designed to give the student a thorough training in structural engineering as applied to aircraft. The elective hours enable the student to broaden his technical training by including some of the civil engineering courses omitted in this option, or by choosing technical courses in other fields, thus increasing his opportunities for employment upon graduation. On the other hand, the elective feature of the program may be used to obtain a more general educational background.

Freshman Program
(See page 81)

Sophomore Program

First Semester	Hours	Second Semester	Hours
Math. 117—Differential Calculus	4	Math. 118—Integral Calculus	4
Phys. 113—General Physics	4	Phys. 114—General Physics	4
E. D. 3—The Slide Rule	1	C. E. 10—Plane Surveying	3
E. D. 101—Descriptive Geometry	3	C. E. 121—Applied Mechanics	3
Ind. A. 121—Pattern Making, Forge, and Foundry	2	Ind. A. 26—Shop Engineering	2
Restricted elective	3	Restricted elective	3
	17		19

Junior Program

C. E. 124—Strength of Materials	3	C. E. 122—Applied Mechanics	2
C. E. 126—Testing Laboratory	1	C. E. 141—Fluid Mechanics	3
C. E. 130—Structural Analysis	4	C. E. 205—Aerodynamics	3
E. E. 129—Circuits and Machinery	3	C. E. 230—Structural Analysis	4
Math. 215—Differential Equations	3	E. E. 130—Circuits and Machinery	3
Electives	3	Electives	3
	17		18

Senior Program

C. E. 131—Structural Design	4	C. E. 133—Aircraft Structures	4
C. E. 224—Advanced Strength of Materials	3	C. E. 225—Mechanical Vibrations	3
M. E. 101—Mechanism	3	M. E. 102—Dynamics of Machinery	3
M. E. 105—Thermodynamics	3	M. E. 109—Aircraft Engines*	3
Electives	5	Electives	5
	18		18

Suggested Electives:

C. E. 211—Photogrammetry	3	Geog. 175—Elementary Meteorology	3
E. D. 102—Descriptive Geometry	2	Geol. 133—Engineering Geology	3
E. E. 101-102—Fundamentals of Radio	6	Math. 204—Advanced Calculus	3

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

It is the aim of the department of Electrical Engineering to provide the background of general information and basic knowledge of principles which enables a student to analyze situations and to think intelligently

*Students who prefer a more complete study of combustion engines may substitute M.E. 106, M.E. 201, and M.E. 202 for this course. In this case, M.E. 105 should be elected in the first semester of the junior year.

and effectively in the field. The curriculum to be pursued has grown out of the belief that these are the most essential foundation elements for the various specialized fields, as well as for early advancement in practical electrical engineering. A choice of electives offers a limited amount of specialization in either power engineering or radio and communication engineering.

Freshman Program

(See page 81)

Sophomore Program

First Semester	Hours	Second Semester	Hours
E. D. 101—Descriptive Geometry	3	C. E. 121—Applied Mechanics	3
Ind. A. 121—Pattern Making, Forge, and Foundry*	2	Ind. A. 26—Shop Engineering	2
Math. 117—Differential Calculus	4	Math. 115—Integral Calculus	4
Phys. 113—General Physics	4	Phys. 114—General Physics	4
Restricted elective	3	Restricted elective	3
Electives	2	Electives	2
	18		18

Junior Program

C. E. 122—Applied Mechanics	2	C. E. 124—Strength of Materials	3
E. E. 143—Electrical Engineering	4	E. E. 144—Electrical Engineering	4
E. E. 145—Dynamo and Measurements Laboratory	3	E. E. 146—Dynamo and Measurements Laboratory	3
E. E. 149—Electrical Measurements Theory	2	E. E. 150—Electrical Measurements Theory	2
Math. 215—Differential Equations	3	M. E. 105—Thermodynamics	3
Electives	4	Electives	3
	18		18

Senior Program

E. E. 203—Communication Engineering	4	E. E. 204—Communication Engineering	4
E. E. 243—Electrical Engineering	4	E. E. 244—Electrical Engineering	4
E. E. 245—Electrical Engineering Laboratory	2	E. E. 246—Electrical Engineering Laboratory	2
E. E. 271—Engineering Electronics	3	E. E. 272—Engineering Electronics	3
E. E. Elective from the following: E. E. 209—High Frequency Techniques (3)	3	E. E. Elective from the following: E. E. 210—High Frequency Techniques (3)	3
E. E. 235—Electrical Transmission of Power (3)	3	E. E. 295—Symmetrical Components (3)	3
E. E. 285—Servomechanisms (3)	3	E. E. 248—Electrical Design (3)	3
	16		16

Suggested Electives:

Eng. 114—Writing Technological and Scientific Reports	2	E. E. 102—Fundamentals of Radio	3
Speech 3—Public Speaking	2	C. E. 126—Testing Laboratory	1
C. E. 141—Fluid Mechanics	3	C. E. 177—Engineering Economy	3
Ec. 209—Public Utilities	3	M. E. 106—Steam Power Engineering	3
E. E. 101—Fundamentals of Radio	3	M. E. 103—Steam Power Laboratory	2
E. E. 233—Illuminating Engineering	3	Math. 204—Advanced Calculus	3
E. E. 211—Advanced Radio Laboratory	2	C. E. 10—Plane Surveying	3
E. E. 291—Studies in Electrical Engineering	1	Phys. 226—Heat Laboratory	1-2
Phys. 223—Mechanics Laboratory	1-2	Phys. 229—Electronics and Electrical Measurements Laboratory	1-4
		E. D. 102—Descriptive Geometry	2

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

The program for this degree is designed to give a background of those engineering fundamentals which should be a part of the equipment of the engineer who is interested in industrial production. This study is supplemented by a program of courses dealing with some of the problems of industrial management. The elective hours distributed throughout the last two years enable the student to increase either the commerce or engineering content of the program, or to extend it by study in other divisions of the University.

* With the consent of his adviser, a student may substitute Ind. A. 129—Welding.

Freshman Program

(See page 81)

Sophomore Program

C. E. 10—Plane Surveying	3	E. D. 101—Descriptive Geometry	3
Math. 117—Differential Calculus	4	Math. 118—Integral Calculus	4
Phys. 113—General Physics	4	Phys. 114—General Physics	4
Ec. 101—Principles of Economics	3	Ec. 102—Principles of Economics	3
Ind. A. 26—Shop Engineering	2	Ind. A. 121—Pattern Making, Forge, and Foundry*	2
E. D. 3—The Slide Rule	1	Electives	2
Electives	2		
	19		18

Junior Program

Acct. 75—Elementary Accounting	3	Acct. 76—Elementary Accounting	3
C. E. 121—Applied Mechanics	3	C. E. 122—Applied Mechanics	2
E. E. 129—Circuits and Machinery	3	E. E. 130—Circuits and Machinery	3
Fin. 121—Business Finance	3	C. E. 124—Strength of Materials	3
Mgt. 201—Production Management	3	C. E. 126—Testing Laboratory	1
Electives	3	Mgt. 202—Production Management	3
	18	Electives	3
			18

Senior Program

M. E. 105—Thermodynamics	3	M. E. 106—Steam Power Engineering	3
E. E. 271—Engineering Electronics	3	C. E. 177—Engineering Economy	3
Bus. L. 159—Business Law	3	C. E. 141—Fluid Mechanics	3
Stat. 155—Business Statistics	3	Commerce electives	2-3
Mkt. 155—Marketing Principles	3	Engineering electives	2-3
Electives	2-3	Electives	2-3
	17-18		15-18

Suggested Engineering Electives:

C. E. 224—Advanced Strength of Materials	3	M. E. 102—Dynamics of Machinery	3
E. D. 102—Descriptive Geometry	2	M. E. 108—Steam Power Laboratory	2
M. E. 101—Mechanism	3	M. E. 111—Engineering Metallurgy	3
		M. E. 201—Applied Thermodynamics	3
Suggested Electives:			
Eng. 114—Writing Technological and Scientific Reports	2	Ec. 238—Labor Legislation	2
Speech 3—Public Speaking	2	Mkt. 176—Sales Management	2
H. R. 203—Human Relations	3	Mkt. 226—Industrial Purchasing and Industrial Marketing	3
Acct. 125—Intermediate Accounting	3	H. R. 204—Human Relations	3
Acct. 224—Standard Costs and Budgets	3	Stat. 203—Variables	3
Ec. 285—Labor Economics	3	Bus. L. 175—Government and Business	3
		Mgt. 212—Administration of Personnel	3

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

The curriculum in mechanical engineering emphasizes machine design and heat engineering. The work covered in the first two years is general and fundamental and parallels that in the other engineering curricula. The last two years cover comprehensive courses in the theory and design of machines and mechanical equipment, and in thermodynamics and its application to steam generators, steam engines and turbines, combustion engines, refrigeration and air conditioning. To give a well-rounded curriculum, work is included in other fields of engineering, such as fluid mechanics and electrical engineering. Limited specialization is provided for by elective courses.

Freshman Program

(See page 81)

Sophomore Program

First Semester	Hours	Second Semester	Hours
C. E. 10—Plane Surveying	3	E. D. 3—The Slide Rule	1
E. D. 101—Descriptive Geometry	3	C. E. 121—Applied Mechanics	3
Ind. A. 121—Pattern Making, Forge, and Foundry*	2	Ind. A. 26—Shop Engineering	2
Math. 117—Differential Calculus	4	Math. 118—Integral Calculus	4
Phys. 113—General Physics	4	Phys. 114—General Physics	4
Restricted elective	3	Restricted elective	3
	19	Electives	2
			19

*With the consent of his adviser, a student may substitute Ind. A. 129—Welding..

Junior Program

C. E. 122—Applied Mechanics	2	C. E. 124—Strength of Materials	3
Math. 215—Differential Equations	3	C. E. 126—Testing Laboratory	1
E. E. 129—Circuits and Machinery	3	E. E. 130—Circuits and Machinery	3
M. E. 101—Mechanism	3	M. E. 102—Dynamics of Machinery	3
M. E. 105—Thermodynamics	3	M. E. 106—Steam Power Engineering	3
Electives	3	M. E. 108—Steam Power Laboratory	2
	17	Electives	3
			18

Senior Program

M. E. 111—Engineering Metallurgy	3	M. E. 104—Machine Design	3
C. E. 141—Fluid Mechanics	3	M. E. 202—Combustion Engines	3
E. E. 271—Engineering Electronics	3	M. E. 204—Heating, Ventilating and Air Conditioning	3
M. E. 103—Machine Design	3	Electives	6-9
M. E. 201—Applied Thermodynamics	3		15-18
Electives	3		
	18		

Suggested Non-Technical Electives:

Acct. 75—Elementary Accounting	3	Acct. 76—Elementary Accounting	3
Bus. L. 159—Business Law	3	Eng. 114—Writing Technological and Scientific Reports	2
H. R. 203—Human Relations	3	H. R. 204—Human Relations	3
Ec. 209—Public Utilities	2 or 3	Mgt. 202—Production Management	3
Mgt. 201—Production Management	3	Speech 3—Public Speaking	2
Mgt. 212—Administration of Personnel	3	Stat. 155—Business Statistics	3
Ec. 235—Labor Economics	3		

Other Suggested Electives:

C. E. 177—Engineering Economy	3	E. E. 235—Electrical Transmission of Power	3
C. E. 205—Aerodynamics	3	E. E. 272—Engineering Electronics	3
C. E. 224—Advanced Strength of Materials	3	M. E. 292—Advanced Machine Design	3
C. E. 225—Mechanical Vibrations	3	Phys. 209—Heat	3
E. D. 102—Descriptive Geometry	2	Phys. 250—Atomic Physics	3
Phys. 249—Atomic Physics	3		

BACHELOR OF SCIENCE IN HOME ECONOMICS

The School of Home Economics attempts to integrate art and science for the improvement of home and family life, and to provide the means of economic independence in occupations related to the activities of the home. There are eight curricula in home economics, each of which leads to the degree of Bachelor of Science in Home Economics.

The curriculum in *Home and Family Living* is planned to develop an appreciation and an understanding of the activities and the relationships of family life, and to equip women for the efficient and successful administration of a home. The nursery school and home management house offer opportunities for experience in the guidance of young children and the management aspects of homemaking.

The *Home Economics and Journalism or Radio* curriculum prepares the student for work in the field of journalism. It is planned for those interested in promotion activities with newspapers, magazines, or radio programs.

The curriculum for *Home Economics Education* provides training for those who wish to teach in junior or senior high schools, vocational schools, and adult education classes. Seniors in home economics may participate in activities of the vocational educational program and qualify for certification to teach in vocational schools.

The curriculum in *Child Development and Family Life* is planned to provide training for home economics positions in nursery schools and welfare agencies caring for young children.

The curriculum in *Foods and Nutrition* is planned for students who are interested in experimental foods, research in foods or nutrition, and dietetics. This curriculum fulfills the requirements of the American Dietetic Association for student dietitians who wish to train for food service in hospitals, hotels, cafeterias, or college residence halls. Students who wish to become dietitians are advised to take a fifth year of apprentice training in one of the institutions approved by the American Dietetic Association.

The curricula for *Home Economics in Business* are planned to provide a background for those who are interested in the business phases of home economics. Specialization is offered in three fields. The curricula in *Clothing and Textiles* and *Home Planning and Decoration* offer training for fashion and merchandising positions in the manufacturing and distributing divisions of the textile and clothing industry, and for the consultants in home decoration problems. The curriculum in *Commercial Foods and Equipment* provides training for promotion services in connection with public utilities and manufacturers or retailers of foods or household equipment.

CORE COURSES. The School of Home Economics offers a group of core courses having no prerequisites, and open to any student in the University. These courses are the basic courses taken by all students in home economics. However, they emphasize the practical aspects of home economics and are planned for women students desiring basic training in the activities relating to the successful management of a home. Individual courses may be elected.

Included in the group are:

- H. Ec. 1 and 2—Foods, Nutrition, and Meal Planning
- H. Ec. 3 and 4—Clothing and Textiles
- H. Ec. 5—Growth and Development of the Child
- H. Ec. 6—Family Living
- H. Ec. 7—The Home and Its Furnishings
- H. Ec. 8—Selection and Purchase of Consumers' Goods

In addition to the basic core curriculum, programs may be set up with some one phase of home economics as a minor field. For instance, students in any department in the University may elect a minor in Home and Family Living, or Clothing and Textiles, or Foods and Nutrition, or Child Development and Family Life, or School Lunch and Institutional Management.

CURRICULA FOR VARIOUS FIELDS OF HOME ECONOMICS

During the first two years emphasis is placed upon general education and basic training for home and family living. In the junior and senior years the student follows a program in Home and Family Living or one of the professional curricula, directed toward a career in some phase of home economics.

I FRESHMAN AND SOPHOMORE PROGRAM

The requirements of the University College relative to high school deficiencies, English composition, physical education, and speech must be fulfilled. In addition the freshman and sophomore program should include the following basic courses:

	Hours
H. Ec. 51—Orientation in Home Economics	1
Science (See note 1)	6-8
Soc. 1—General Sociology	2
Psych. 1—General Psychology	3
Ec. 3—Contemporary Economic Society (3) or	3
Ec. 101-102—Principles of Economics (6)	3-6
Design 91 and 102—Design and Composition and Applied Design (5) or	3
Design 11 and 12—Basic Design (4)	4-5
H. Ec. 1-2—Foods, Nutrition and Meal Planning	6
H. Ec. 3-4—Clothing and Textiles	6
H. Ec. 5—Growth and Development of the Child	3
H. Ec. 6—Family Living	3
H. Ec. 7—The Home and Its Furnishings	2
H. Ec. 8—Selection and Purchase of Consumers' Goods	2

Note 1: Chemistry is required of those majoring in Foods and Nutrition, Clothing and Textiles, or Commercial Foods. Students following other curricula in home economics may take either Bot. 3-4—Living World, Zool. 3-4—Principles of Zoology, or chemistry. Chemistry is strongly recommended for those students who do not know which curriculum they wish to follow.

II JUNIOR AND SENIOR PROGRAM

During the first two years the student has the opportunity of becoming acquainted with all areas of home economics. By the beginning of the junior year she should know what specialized program she wishes to follow during the junior and senior years.

The following areas of specialization are offered:

- Home and Family Living
- Home Economics and Journalism or Radio
- Home Economics Education
- Child Development and Family Life—with Nursery School Training
- Foods and Nutrition—including Dietetics and Institutional Management
- Home Economics in Business, with specialization in:
 - Clothing and Textiles
 - Commercial Foods and Equipment
 - Home Planning and Decoration

In all curricula, H. Ec. 251—Home Management and H. Ec. 253—Home Management Laboratory and 15 to 20 hours of advanced work in the major field will be required. Supplementary or related courses in other departments will be added to provide the student with training for home and family living and for a position in one of the numerous fields of home economics.

Students planning to teach home economics must complete the courses required by the State Department of Education, or the department of education in the state in which they expect to teach. Students who wish to become dietitians must fulfill the requirements of the American Dietetic Association. Information regarding requirements may be obtained from the Director, School of Home Economics, Ohio University, Athens, Ohio.

III GRADUATE PROGRAM

Advanced work leading to the master's degree is offered in the following fields of home economics:

Foods and Nutrition
Clothing and Textiles
Child Development and Family Life—including Nursery
School Training
Home Economics Education

The program for each student is worked out individually with her counselor. The student's undergraduate courses and her professional interest are both considered in planning the graduate program.

INDUSTRIAL ARTS

The Department of Industrial Arts offers service courses for all students and especially for those in agriculture, engineering, education, and journalism. The offerings include the basic skills and practices in woodworking, including wood finishing and upholstery; metal working, including sheet metal work, forge work, heat treating, foundry, machine shop, and welding; cement working; ceramics; practical electricity; and graphic arts, including duplicating, elementary photography, letterpress printing, photolithography, and off-set printing.

THE COLLEGE OF ARTS AND SCIENCES

W. S. GAMERTSFELDER

DEAN

Archaeology and Antiquities
Astronomy
Botany
Chemistry
Classical Languages
Comparative Literature
English
Geography and Geology
German
Government
History
Human Relations
Mathematics
Philosophy
Physics
Psychology
Romance Languages
Russian
Sociology
Zoology

THE COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences aims to give the student an opportunity to secure a well-rounded liberal education. Life in a changing world such as ours calls for a broad training and an appreciative understanding of the varied elements in our own and other cultures. Today the peoples of various races, nations, languages, and vocational interests intermingle in a human society increasingly interdependent and bound together by improved instruments of communication, travel, trade, and governmental arrangements. Peaceful and effective living in such a world requires flexibility in personal equipment and ability to make quick and intelligent adjustments in the social as well as the physical environment.

The liberally educated man or woman will have facility with one, or better, two languages; he will possess an understanding of himself and a broad knowledge of his physical, social, moral, and spiritual environment; he will be able to deal reflectively with the problems of his day in the light of the most reliable and tested knowledge of his time; he will have an appreciative understanding of the fine arts and find enjoyment in them; he will be able to live and act in the home, the local community, the nation, and the international community as an informed, responsible, and sympathetic human being.

The degree requirements are so arranged as to acquaint the student with the main fields of knowledge and, at the same time, to bring to light his special aptitudes and major interests. Yet, while emphasizing breadth of training, the curricula permit such a degree of specialization in the last two years as to prepare the student for work in a professional school, for graduate study, or for the duties of a vocation. Within the limits of the curriculum chosen, the student may elect to take his major and minor subjects from the course offerings of the other colleges as well as this college.

The College offers instruction in the following departments:

Archaeology and Antiquities	History
Astronomy	Human Relations
Botany	Mathematics
Chemistry	Philosophy
Classical Languages	Physics
Comparative Literature	Psychology
English	Romance Languages
Geography and Geology	Russian
German	Sociology
Government	Zoology

The student is permitted to elect courses in the other colleges with considerable freedom. In some instances a major or a minor for graduation may be completed in a department of another college, though in

the case of some departments the number of hours which may be counted on degree requirements is limited. These limitations are explained below. For counsel and assistance in planning his program of studies, the student is expected to select an adviser from the instructional staff in his major subject. The Dean will recommend or assign an adviser if requested to do so.

The College offers three degrees: the Bachelor of Arts, the Bachelor of Science, and the Bachelor of Science in Chemistry. The requirements for the first two degrees call for a considerable distribution of studies, yet they also permit of specialization. Indeed, they require sufficient stress in major and minor fields to insure some degree of mastery in particular fields. The requirement for the degree of Bachelor of Science in Chemistry involves considerable concentration in chemistry. In general, the distinction among the curricula for the three degrees in the College of Arts and Sciences lies in the fact that for the Bachelor of Arts degree greater emphasis is placed upon the old and new humanities, such as English, foreign languages and literature, and the social sciences; whereas, for the Bachelor of Science degree and the Bachelor of Science in Chemistry degree the chief emphasis is placed upon the natural sciences and mathematics.

All candidates for degrees in the College of Arts and Sciences complete the general university requirements for graduation which include a minimum of 124 semester hours with a point-hour ratio of 2.0 in all hours attempted.

BACHELOR OF ARTS

The total hours required for the degree of Bachelor of Arts include the requirements of the University College and six semesters of work which comprise approximately 94 semester hours approved by the Dean of the College of Arts and Sciences. Not fewer than 50 semester hours shall be in courses numbered 100 to 299, with at least 12 semester hours in courses numbered 200 to 299.

The specific requirements for the degree are:

1. English: -----	Hours
Eng. 3-4—English Composition	12
Eng. 101, 102—Sophomore English Literature	
2. Foreign Language: -----	6-16

At least one year of foreign language shall be taken in college. A minimum of two college years of a foreign language in high school and/or college, with two college years or equivalent in one language, is required. Two units of foreign language in high school are equivalent to one year of foreign language in college.

The student who has two units of foreign language in high school and who registers for the first or second semester of that language in college will be regarded as duplicating high school credit. Three or four hours, as the case may be, will be added to the student's graduation requirements for each semester of such duplicated credit. If the student has only one unit of high school credit in the language, the student may register for the first semester of the language without penalty for duplication.

(1) Students who enter with two units of a foreign language continue one year in the same language. If a new

language is begun, they take two years of the same language, except that those who have had two units of Latin may take one year of Greek.

(2) Students who enter with two units in each of two foreign languages continue one of the languages for one year. If a new language is begun, they take two years of the new language.

(3) Students who enter with four units in one foreign language take a language for one year.

(4) Students who enter with one unit of a foreign language continue the same language for a year and a half. If they begin a new language, they take two years of the new language.

3. Natural Science and Mathematics: Six semester hours shall be in one subject -----

12

Biological sciences: botany; [#]Psych. 109, 201, and 207; Zoology

Physical sciences: astronomy, chemistry, geology, physics
Mathematics (except 1, 2, 3, and 8)

(1) Students who enter with one year in biological sciences and one year in physical science may fulfill the requirement in natural science, mathematics, or in a combination of them.

(2) Students whose high school credits include less than one year of biological science are required to take a year of biological science; those with less than a year in chemistry or physics are required to take a year of physical laboratory science.

(3) Students who enter with neither biological science nor physical science are required to have one year of each.

4. Social Science: Six semester hours in one department, with three hours in each of two other departments, and five additional hours as electives -----

17

Economics, geography, government, history, philosophy, psychology (except 109, 201, and 207), sociology.

5. The Subject and Group Major: In consultation with an adviser, the student should select his major subject and group major in his sophomore year. The subject major is fulfilled by completing the hours and courses indicated for the particular department below or as indicated in connection with the departmental description of courses. The group major is fulfilled by completing the subject major and enough additional hours in related subjects of the same group to make a minimum of 36 hours. The adviser will suggest the order in which courses are to be taken. English composition, the beginning or first year of a foreign language, Math. 1, 2, 3, 8, and courses in teaching techniques are not counted in the subject and group major or minor requirement. No more than six hours of credit in methods courses may be counted as electives on degree requirements.

The student may take a major in any of the following departments or divisions by completing the hours and/or courses as indicated:

[#]A student who majors in psychology may not elect to fulfill the minimum requirements in the biological sciences by taking Psych. 109, 201, or 207.

[†]High school courses in botany, general biology, or zoology fulfill this requirement, but courses in agriculture, general science, hygiene, nature study, or physiology do not.

Archaeology and Antiquities—20 hours*
 Botany—24 hours*
 Chemistry—26 hours*
 Classical Languages—20 hours above 1-2
 Commerce—26 hours¹, including Ec. 101-102
 Dramatic Art—34 hours²
 Economics—24 hours as approved by the dean
 English—22 hours above 3-4*
 Geography—24 hours and Geol. 1-2 or Geol. 125-126
 Geology—26 hours*
 German—20 hours above 1-2*
 Government—20 hours
 History—24 hours*
 Home Economics—24 hours³
 Journalism—20 hours⁴
 Mathematics—27 hours*
 Music—42 hours⁵
 Painting and Allied Arts—24 hours⁶
 Philosophy—20 hours
 Physics—24 hours*
 Psychology—24 hours*
 Romance Languages—20 hours above 1-2
 Sociology—24 hours*
 Speech and Speech Correction—See Dramatic Art and Speech above.
 Zoology—24 hours*

6. The Subject and Group Minor: In consultation with his major adviser, the student should select his minor subject and group minor not later than his junior year. The subject minor is fulfilled by completing a minimum of 12 hours in a single subject or department in a group other than the group of the major subject, with not fewer than 18 hours in the minor group. English composition, the beginning or first year of a foreign language, Math. 1, 2, 3, 8, and courses in teaching techniques are not counted in the subject and group major or minor requirement.

*See requirements preceding departmental description of courses.

¹The courses are to be selected from the following departments with a limitation of hours as here indicated: Accounting, 12 hours; Advertising, 9 hours; Business Law, 6 hours; Finance, 9 hours; Management, 6 hours; Marketing, 6 hours; and Secretarial Studies, 6 hours.

²Students completing a major in dramatic art, speech, or speech correction are required to take the following basic courses in speech: 2, 3, 25, 34, 195, 212, and Radio 5, and such additional courses in dramatic art, speech, or speech correction as the specialized field chosen requires. A mimeographed copy giving details of requirements for majors and minors in these fields may be secured at the office of the dean.

³Home and Family Living, 24 hours (includes 6 hours in each of the four fields: Foods and Nutrition; Child Development and Family Life; Clothing and Textiles; Home Furnishing, Equipment, and Management), or Foods and Nutrition, 24 hours, or Child Development and Family Life, 24 hours, or Clothing and Textiles, 24 hours.

⁴The courses for a major in journalism are to be selected from the following writing courses: 103, 107, 111, 130, 134, 222, 223, and 225. The student who wishes to complete a graduation minor in journalism may take 12 hours or more from the following courses: 105, 140, 146, 147, 151, 152, 177, 206, 207, 208, 227, 228, 172, or 243, 247, 248.

⁵Plan I. Music History and Literature: Basic theory (Mus. 3-4, 105-106), 12 hrs.; history of music (F. A. 123-124), 6 hours; counterpoint or orchestration, 4 hours; advanced courses in music history or literature, 12 hours; piano (completion of Piano 18), 8 hours. Plan II. Music Theory: Basic theory (Mus. 3-4, 105-106), 12 hours; counterpoint, orchestration, composition, form and analysis, 12 hours; history of music (F. A. 123-124), 6 hours; piano (completion of Piano 18), 8 hours; advanced courses in music literature, 4 hours.

⁶A major in painting and allied arts consists of 24 hours including Design 11-12 (4 hours), Painting and Drawing 45-46 (4 hours), and Fine Arts 121-122 (6 hours) with a minimum of 10 hours selected from one of these fields or from one of the following: art history, sculpture and ceramics, or photography 77-78, 277-278, 279-280, and 281.

The student may fulfill his minor requirements in any department or subject listed in the Group Organization of Departments and Subjects (7 below), provided he chooses his minor in a group other than his major group, and provided the department is listed as offering a minimum of 12 hours of approved work.

7. Fields of Instruction and Group Organization of Departments and Subjects: The subjects or courses which may be applied on degree requirements are arranged in three groups. Some of the subjects or courses are offered only in one or another of the other colleges. In some subjects or departments the amount of credit which may be applied on the degree is limited, as is indicated by the number following the department; in other instances specific courses only are approved. Where no limit is set, the student is free to take any and all courses approved by his adviser, provided he does not take more than 50 hours in one department.

(1) Language*, Literature, Fine Arts, and Journalism Group:

Archaeology and antiquities, English, French, German, Greek, Italian, Latin, Portuguese, Romance philology, Russian, Spanish.

Courses in other colleges: art history, architecture, 12 hours, design, dramatic art, fine arts, music, painting and allied arts, photography, radio, speech and speech correction; journalism 103, 107, 111, 116, 117, 121, 180, 134, 222, 223, 225.

(2) Natural Science, Mathematics**, and Related Science Group:

Biological sciences: botany; Psych. 109, 201, 207; zoology. Physical sciences: astronomy, chemistry, geology, physics. Mathematics (except 1, 2, 3, and 8).

Courses in other colleges: agriculture, 12 hours (3, 4, 109, 226); civil engineering, 6 hours; electrical engineering, 6 hours; home economics, 24 hours; industrial arts, 5 hours; engineering drawing, 4 hours; mechanical engineering, 5 hours.

(3) Social Science Group:

Geography, government, history, human relations, philosophy, psychology (except 109, 201, 207), sociology. Courses in other colleges or divisions: accounting, 12 hours; advertising, 9 hours; business law 6 hours; economics; education*** 20 hours; finance, 9 hours; journalism 105, 140, 146, 151, 152, 177, 206, 207, 208, 227, 228, 172, or 243, 247, 248; management, 6 hours; marketing, 6 hours; advanced R.O.T.C.; physical education, 16 hours (except required activities courses); secretarial studies, 6 hours.

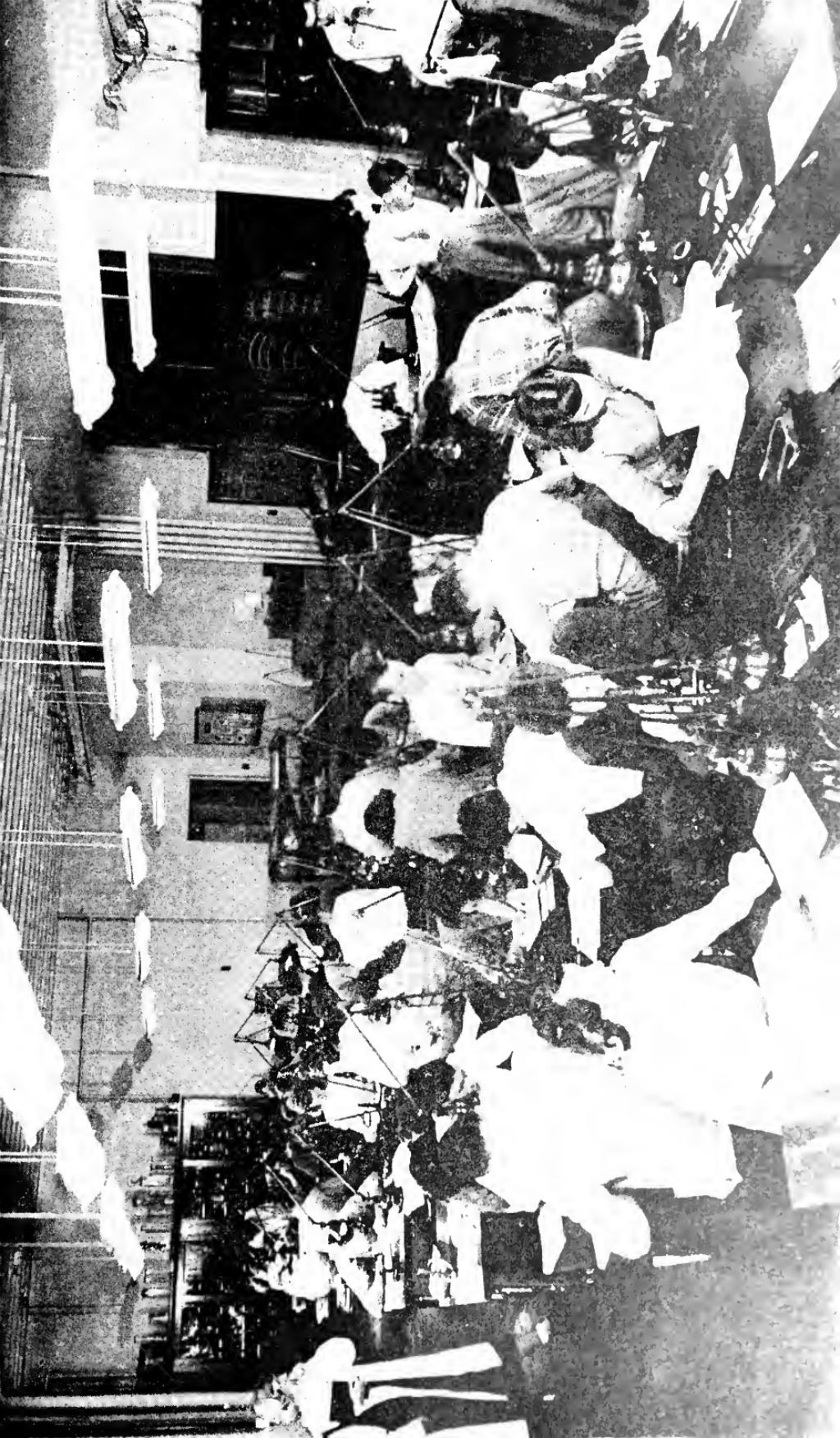
BACHELOR OF SCIENCE

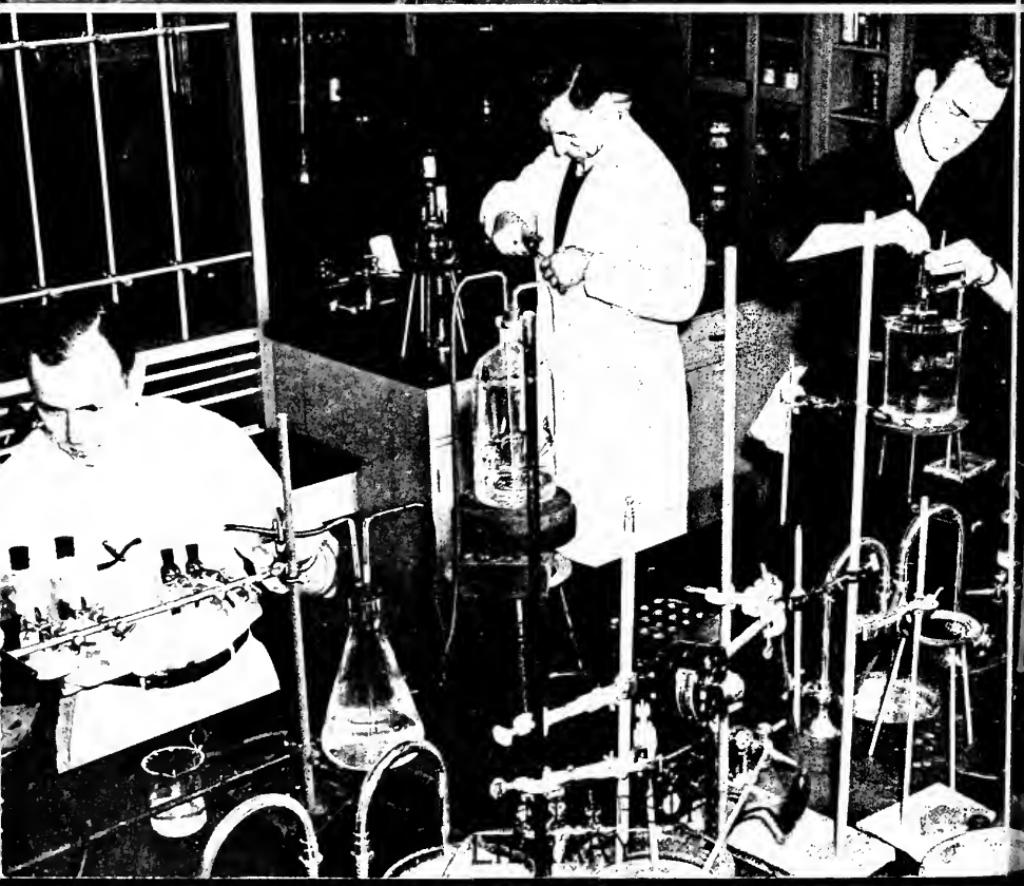
The total hours required for the degree of Bachelor of Science include the requirements of the University College and six semesters of work which comprise approximately 94 semester hours approved by the Dean of the College of Arts and Sciences. Not fewer than 50 semester

*Credit for the first and second year of foreign language will be given toward a degree only if the student has not had the work in high school. However, no credit on the graduation major or minor will be given for the first year of a foreign language.

**Credit for Math. 1, 2, 3, and 8 will be given toward a degree only if the student has not had the work in high school. However, no credit on the graduation major or minor will be given for any of these courses.

***Not more than 6 hours of teaching technique courses may be counted.





hours shall be in courses numbered 100 to 299, with at least 12 semester hours in courses numbered 200 to 299. Not more than 50 semester hours in any department are counted toward the degree requirements.

The specific requirements for the degree are:

	Hours
1. English: -----	9
Eng. 3-4 (English Composition) and 3 semester hours of literature	
2. Foreign Language: French or German preferred -----	0-16
A minimum of two college years of foreign language in high school and/or college is required. Two units of foreign language in high school are equivalent to one year of foreign language in college.	
(1) Students who enter with four years in one foreign language or two years in each of two foreign languages are excused from this requirement.	
(2) Students who enter with three years in one foreign language may complete the requirement by continuing the same language for one semester, or by taking a new language for one year. Students who enter with two years in one foreign language and one year in another, may continue either language for one semester. If a student changes to a new language he takes one year.	
(3) Students who enter with two years in a foreign language may complete the requirement by taking one year of the same or another language; those who enter with one year in each of two languages, take one and one-half years in the same or another language.	
(4) Students who enter with one year of foreign language take one and one-half years of a foreign language; those who enter with no foreign language take two years of a foreign language.	
3. Natural Science and Mathematics: -----	48
A minimum of one year of biological science and one year of physical science in high school or college is required. The further requirement includes a major in one of the departments (Botany, Chemistry, Geology, Mathematics, Physics, Zoology), and not fewer than 6 semester hours in each of two departments, including astronomy, other than the major department. See "Courses of Instruction" for major requirements.	
4. Social Science: Six semester hours in one department, with three hours in each of two other departments, and five additional hours as electives -----	17
Economics, Geography, Government, History, Philosophy, Psychology (except 109, 201, and 207). Sociology.	

BACHELOR OF SCIENCE IN CHEMISTRY

This degree is primarily for those who expect to go into industrial laboratories at the termination of their college program. Students anticipating graduate training in chemistry should elect the Bachelor of Science degree with a major in chemistry. (See page 96.) Students looking forward to the doctorate should acquire a reading knowledge of German and French.

The total hours required for the degree of Bachelor of Science in Chemistry include the requirements of the University College and six semesters of work which comprise 94 semester hours in specific and elective courses as outlined in the curriculum below.

The specific requirements for the degree include:

	Hours
1. English: -----	6
Eng. 3-4—English Composition	

2. Foreign Language: -----	0-8
	A minimum of one college year of foreign language in high school and/or college is required. Two units of high school foreign language are equivalent to one year in college.
3. Natural Science and Mathematics: -----	85-95
	A minimum of one year of biological science in high school or college is required. The other specific requirements are listed in the curriculum below.
4. Social Science: Three semester hours in each of three of the following departments and five additional hours as electives -----	14
	Economics, Geography, Government, History, Philosophy, Psychology (except 109, 201, and 207), Sociology.

BACHELOR OF SCIENCE IN CHEMISTRY CURRICULUM*

The university requirements pertaining to physical education and speech are not indicated in the curriculum below. See page 70.

Freshman Program

The University College program should include:

	Hours	Hours	
Chem. 1 or 3—General Chemistry -----	4	Chem. 2 or 4—General Chemistry -----	4
E. D. 1—Engineering Drawing -----	2	Eng. 4—English Composition -----	3
Eng. 3—English Composition -----	3	Math. 6—Freshman Mathematics -----	5
Math. 5—Freshman Mathematics -----	5	Phil. 1—Principles of Reasoning -----	3
		Social science elective -----	3

Sophomore Program

Chem. 109—Quantitative Analysis -----	5	Chem. 110—Quantitative Analysis -----	5
Math. 117—Differential Calculus -----	4	Math. 118—Integral Calculus -----	4
Phys. 5—Introduction to Physics or		Phys. 6—Introduction to Physics or	
Phys. 113—General Physics -----	4	Phys. 114—General Physics -----	4
Electives -----	3	Electives -----	3

Junior Program

Chem. 201—Organic Chemistry -----	3	Chem. 202—Organic Chemistry -----	3
Chem. 203—Organic Chemistry -----		Chem. 204—Organic Chemistry -----	
Laboratory -----	2	Laboratory -----	2
Chem. 213—Physical Chemistry -----	3	Chem. 214—Physical Chemistry -----	3
Ec. 101—Principles of Economics -----	3	Ec. 102—Principles of Economics -----	3
Math. 204—Advanced Calculus or		Electives -----	
Math. 215—Differential Equations -----	3		
Electives -----	2		

Senior Program

Chem. 215—Physical Chemistry -----		Chem. 216—Physical Chemistry -----	
Laboratory -----	3	Laboratory -----	2
Chem. 229—Chemical Engineering -----	3	Chem. 230—Chemical Engineering -----	3
Chem. 231—Chemical Engineering -----		Chem. 232—Chemical Engineering -----	
Laboratory -----	2	Laboratory -----	3
Chemistry electives (courses over 200) -----	3	Chemistry electives -----	3
Physics electives -----	3	Physics electives -----	3
Electives -----	3	Electives -----	3

PREPROFESSIONAL CURRICULA

PREFORESTRY

The following sequences of courses is recommended. The university requirements pertaining to English composition, physical education and speech are not indicated in the curriculum below. See pages 70 and 76.

- *1. A student who is deficient in such high school subjects as elementary algebra, plane geometry, and foreign language may not be able to complete this curriculum in eight semesters.
- 2. A student is advised to take Chem. 105 or 106—Qualitative Analysis in the summer and thus be prepared to take quantitative analysis in the fall semester of the second year.

Freshman Program

The University College program should include:

	Hours	Hours	
Bot. 1—General Botany	3	Bot. 2—General Botany	3
Eng. 3—English Composition	3	Chem. 1 or 3—General Chemistry	4
Math. 5—Freshman Mathematics	5	Eng. 4—English Composition	3
Electives*	4	Electives*	5

Sophomore Program

C. E. 10—Plane Surveying	3	E. D. 1—Engineering Drawing	2
Ec. 101—Principles of Economics	3	Geol. 1—Elementary Geology or	
Phys. 5—Introduction to Physics	4	Geol. 125—Physical Geology	3
Zool. 3—Principles of Zoology	3	Chem. 2 or 4—General Chemistry	4
Electives**	2	Zool. 4—Principles of Zoology	3
		Electives**	3-5

Junior Program

Agr. 3—Forestry	3	Agr. 117—Soil Conservation	3
Agr. 115—Soils and Fertilizers	3	Bot. 109—Plant Geography of	
Bot. 108—Vegetation of North		the World	2
America	2	Bot. 218—Wood Technology	3
Bot. 117—Dendrology	3	Bot. 224—Forest Pathology	3
C. E. 110—Topographic Surveying	2	Electives**	5-7
Electives**	2-4		

Senior Program

Agr. 110—Nursery Practices	3	Zool. 116—Animal Communities	4
Bot. 203—Principles of Plant Ecology	4	Bot. 209 or 210—Plant Microtechnic	3
Bot. 205—Plant Physiology	4	Bot. 215—Taxonomy of Vascular	
Zool. 119—General Entomology	4	Plants	3
Electives**	2	Social Science Electives	3
		Electives**	3-4

The following related courses in other departments are suggested: Chem. 113, 117, Geol. 125, 240, Phys. 6, Zool. 119, 141, or 211, 227.

PREMEDICAL

Medical colleges require their prospective students to spend from six to eight semesters in premedical preparation. A number of medical colleges give preference to holders of a bachelor's degree and some require an arts college degree for admission.

The minimum requirements for admission include general inorganic chemistry, organic chemistry, physics, general biology or zoology, comparative anatomy, embryology, English, and in most cases a reading knowledge of either French or German. Courses in government, history, economics, sociology, philosophy, and literature are strongly advised.

Students who have completed 94 semester hours (six semesters) at Ohio University with a point-hour ratio of 2.0 or above, in all hours attempted, and have satisfied the requirements of the College of Arts and Sciences for the degree of Bachelor of Arts or Bachelor of Science may obtain the degree after completing a full year's work in an accredited school of medicine with an average grade of C, or above, or the equivalent, provided before entering the school of medicine the student secures a statement in writing from the Dean giving the senior-in-absentia privilege. Fulfillment of the requirements for the Bachelor of Arts degree is advised.

Students who apply to medical school are required to take the Medical College Admission Test. Many medical schools also require the Graduate Record Examination. (See footnote on page 154 for information as to when the examination may be taken on the campus.) The latter

*See requirements for University College.

**See requirements for the Bachelor of Arts or the Bachelor of Science degree.

examination covers areas outside of the science fields, so that students are urged to select as elective courses work in the fields of social science, fine arts, and literature. Emphasis in social science is placed on knowledge of government and economics. Suggested courses are indicated as electives in the premedical curriculum given below.

The following sequence of courses is recommended. The university requirements pertaining to English composition, physical education and speech are not indicated in the curriculum below. See pages 70 and 76.

Freshman Program

The University College program should include:

	Hours	Hours	
Chem. 1-2 or 3-4—General Chemistry	8	Zool. 3-4—Principles of Zoology	6
Electives‡		Electives‡	18

Sophomore Program

Chem. 113—Organic Chemistry	4	Phil. 103—Introduction to Philosophy	3
Chem. 117—Organic Chemistry		Electives**	8-12
Laboratory	2		
English ^a	6		
Gk. 27—Greek Words in English	2		
Zool. 107—Principles of Heredity	3		

Junior Program

Chem. 107—Quantitative Analysis	4	Zool. 120—Comparative Vetebrate	
Phys. 5, 6—Introduction to Physics	8	Anatomy***	4
		Electives	14

Senior Program

Zool. 201—Mammalian Anatomy†	4	Zool. 205—Principles of Physiology	4
Zool. 202—Vetebrate Embryology†	4	Electives**	20

Suggested electives: courses in logic, philosophy, government, economics, history, English, mathematics, German or French, psychology, sociology.

PREDENTAL

The minimum requirement for admission to dental school is the completion of at least 60 semester hours of college work which must include: general inorganic chemistry, organic chemistry, physics, general biology or zoology, and English. Most dental colleges recommend additional courses in zoology. A broad training in courses other than natural science is urged. Students who have completed 94 semester hours (six semesters) at Ohio University with a point-hour ratio of 2.0 or above, in all hours attempted, and have satisfied the requirements of the College of Arts and Sciences for the degree of Bachelor of Arts or Bachelor of Science may obtain the degree after completing a full year's work in an accredited dental school with an average grade of C, or above, or the equivalent, provided before entering the school of dentistry the student secures a statement in writing from the Dean giving the senior-in-absentia privilege. Fulfillment of the requirements for the Bachelor of Arts degree is advised.

The following sequence of courses is recommended. The university requirements pertaining to English composition, physical education and speech are not indicated in the curriculum below. See pages 70 and 76.

^aFor the Bachelor of Arts degree English 101 and 102 are required with English 171 strongly recommended as an elective in the junior year.

For the Bachelor of Science degree the requirement is English 101 or 171.

^{**}See requirements for the Bachelor of Arts or the Bachelor of Science degree.

^{***}Students leaving at the end of the third year should elect this in the second year.

[†]Students leaving at the end of the third year should elect this in the third year.

[‡]See requirements for University College. Math. 5 is urged for the freshman year.

Freshman Program

The University College program should include:

	Hours		Hours
Chem. 1-2 or 3-4—General Chemistry	8	Zool. 3-4—Principles of Zoology	6
Electives‡		Electives‡	18

Sophomore Program

Chem. 113, 117—Organic Chemistry	6	Zool. 120—Comparative Vertebrate	
English*	6	Anatomy	4
Phys. 5, 6—Introduction to Physics	8	Electives**	8

Junior Program

Chem. 105—Qualitative Analysis	3	Zool. 205—Principles of Physiology	1
Math. 125—Elementary Statistics	3	Zool. 211—General Bacteriology	4
Phil. 103—Introduction to Philosophy	3	Electives**	8
Zool. 107—Principles of Heredity	3		

Suggested electives: courses in logic, philosophy, government, economics, history, English, psychology, sociology and mammalian anatomy.

NURSING

This curriculum is arranged for students who wish to obtain a college degree and also become registered nurses. Ohio University has an arrangement with the Grant Hospital School of Nursing, Columbus, Ohio, which enables a student to complete the requirements for an A.B. or a B.S. degree and also those of the nursing course in five years and four months. These requirements can be met by completing a three-year curriculum at Ohio University, 94 semester hours with a point-hour ratio of 2.0 in all hours attempted, and two years and four months at the Grant Hospital School of Nursing. The fulfillment of the requirements for the Bachelor of Arts degree is advised.

A bulletin of the requirements for nurses will be furnished upon request to the Director of Nursing, Grant Hospital, Columbus, Ohio. Because students are admitted to the school of nursing only after rather careful selection which considers both personal and scholastic qualifications, the Grant Hospital School of Nursing is interested in meeting and advising each applicant as early in her course as possible. The Director of the Grant Hospital School of Nursing will be glad to advise any prospective nursing student. This does not obligate any student to enroll in the Grant Hospital school. Prospective nurses who wish to enter the Grant Hospital school should be advised by the Department of Zoology.

For students who wish to enroll in the Grant Hospital School of Nursing, the following procedure is observed: 1. As soon as possible after enrollment in the University, communicate with the school of nursing, submitting a copy of that semester's program. 2. At the end of each semester communicate with the school of nursing, sending a copy of the grades for the last semester and the program for the new semester. 3. Not later than March 1 of the freshman year send to the Grant Hospital School of Nursing the formal application for entrance and two copies of the high school record. These blanks are furnished by the school of nursing. On receipt of this application the nursing school will arrange for pre-entrance examinations. 4. Report to Grant Hospital on the day appointed—during April or May of the freshman year—for nursing pre-entrance examinations and personal interview. 5. On completion of the three years at Ohio University request that two transcripts of the university record be sent to the school of nursing. The school of nursing year begins in September.

Freshman Program

The University College program should include:

	Hours	Hours	
Chem. 1-2 or 3-4—General Chemistry	8	Psych. 1—General Psychology	3
French, Spanish, or German	6-8	Zool. 3-4—Principles of Zoology	6
Algebra and geometry must be taken either in high school or college.		Electives**	

Sophomore Program

Chem. 113, 117—Organic Chemistry	6	Psych. 2—Psychological Approach to Everyday Problems	3
Eng. 101, 102—Sophomore English Literature*	6	Psych. 5—Educational Psychology	3
H. Ec. 1-2—Foods, Nutrition and Meal Planning	6	Soc. 1—General Sociology	3
		Zool. 107—Principles of Heredity	3
		Zool. 121—Elements of Anatomy	3

Junior Program

Eng. 171—Sophomore Exposition*	3	Psych. 210—Mental Hygiene	3
Math. 125—Elementary Statistics	3	Zool. 205—Principles of Physiology	4
Phil. 1—Principles of Reasoning	3	Zool. 211—General Bacteriology	4
Phil. 103—Introduction to Philosophy	3	Zool. 212—Pathogenic Bacteriology	4

GRANT HOSPITAL SCHOOL OF NURSING

Fourth Year

Anatomy and Physiology (Human)	6	Pharmacology I (Dosage and Solutions)	1
Introduction to Medical Science I	1/2	History of Nursing	1
Professional Adjustments I	1	Sociology (Applied Community)	1
Nursing Arts	6	Medical and Surgical Nursing	4
Diet Therapy	1	Pharmacology II (Materia Medica)	2
Introduction to Medical Science II	1/2		

Fifth Year
(and four additional months)

Surgical Specialties	3	Medical Specialties	3
Psychiatry and Psychiatric Nursing	2	Nursing of Children	4
Obstetrics and Obstetrical Nursing	2	Nursing and Health Service in	
Professional Adjustments II	1	the Family	1

Recommended electives: Soc. 2, 208, 221, 234; Psych. 209, 215, 217.

MEDICAL TECHNOLOGY

Preparation in medical technology trains students in the laboratory methods used in hospitals, physicians' offices, public health bureaus, and other laboratories concerned with medical diagnosis and investigation.

Technologists who wish to be recognized by the American Society of Clinical Pathologists and entitled to use the initials, M.T., must have had university training in a recognized hospital. Interested persons are invited to write to Dr. F. B. Dilley, Director of Admissions, Ohio University, Athens, Ohio, for a descriptive folder on Training in Medical Technology.

The Ohio University—Mount Carmel Hospital Affiliated Training for Medical Technologists amply fulfills all requirements. After completing six semesters (a minimum of 94 semester hours) at Ohio University, and while still registered in the University, prospective technologists spend twelve months in residence at Mount Carmel Hospital, Columbus, Ohio. An excellent feature connected with this portion of the training is a rotating arrangement which affords practice in specialized laboratories for certain technics, such as tuberculosis technic in the Franklin County Tuberculosis Sanitarium; histologic technic in the Pathological Laboratory of Ohio State University; and private lab-

*For the Bachelor of Arts degree Eng. 101 and 102 are required with Eng. 171 strongly recommended as an elective in the junior year.

For the Bachelor of Science degree the requirement is Eng. 101 or 171.

**See requirements for University College.

oratory experience in a practicing pathologist's office. Upon satisfactory completion of the requirements, the student is eligible to receive from Ohio University the degree of Bachelor of Science and to take the qualifying examination given each spring and fall by the Board of Registry of the American Society of Clinical Pathologists for the professional designation of Medical Technologist.

The W. K. Kellogg Foundation of Battle Creek, Michigan, has granted the university the sum of \$4,000 to be used as a scholarship and loan fund for students during their year at Mount Carmel.** Expenses to be met during the year in Columbus are board and room, a fee of \$45 paid to the University, and a small sum for books and laboratory gowns. No fees are charged by Mount Carmel Hospital, nor does it pay any remuneration.

The university requirements pertaining to physical education and speech are not indicated in the curriculum below. See page 70.

Freshman Program*

The University College program should include:

	Hours		Hours
Chem. 1 or 3—General Chemistry	4	Chem. 2 or 4—General Chemistry	4
Eng. 3—English Composition	3	Eng. 4—English Composition	3
Zool. 3—Principles of Zoology	3	Zool. 4—Principles of Zoology	3
Electives	7	Electives	7

Sophomore Program

Chem. 113, 117—Organic Chemistry	6	Social science electives	4
English elective	3	Zool. 124—Histology	4
Zool. 107—Principles of Heredity	3	Zool. 135—Elements of Physiology	4
Zool. 121—Elements of Anatomy	3	Zool. 211—General Bacteriology	4

Junior Program

Phil. 103—Introduction to Philosophy	3	Chem. 107—Quantitative Analysis	4
Zool. 125—Animal Microtechnic	2	Math. 125—Elementary Statistics	3
Zool. 145—Clinical Technic	2	Social science elective (course over 100)	3
Zool. 209—Biological Chemistry	4	Zool. 146—Clinical Technic	2
Zool. 212—Pathogenic Bacteriology	4	Zool. 216—Animal Parasites	4

Senior Program†

Med. Tech. 191—Urinalysis	3	Med. Tech. 194—Chemistry	8
Med. Tech. 192—Hematology	5	Med. Tech. 195—Histologic Technic	4
Med. Tech. 193—Bacteriology, etc.	11	Med. Tech. 196—Basal Metabolism and Electrocardiography	1

INSECT CONTROL

Positions of a wide variety are offered by the Federal government, state experiment stations, and to a lesser extent by private companies in insect control work; i.e., economic entomology. Students considering this field as a vocation should plan to continue training beyond the Bachelor of Science degree. At least a master's degree is necessary to fit one for a position, and for most positions a Ph.D. degree is required.

The university requirements pertaining to physical education and speech are not indicated in the curriculum below. See page 70.

Freshman Program

The University College program should include:

	Hours		Hours
Bot. 1—General Botany	3	Bot. 2—General Botany	3
Eng. 3—English Composition	3	Eng. 4—English Composition	3
Zool. 3—Principles of Zoology	3	Zool. 4—Principles of Zoology	3
Electives‡	6-8	Electives‡	6-8

*Two college years of foreign language or its equivalent are required. Two units of foreign language in high school are equivalent to one year of foreign language in college.

**Application for aid should be filed with the Chairman, Department of Zoology, Ohio University, Athens, Ohio.

†See description of courses on page 318.

‡See requirements for University College.

Sophomore Program

Chem. 1 or 3—General Chemistry	4	Chem. 2 or 4—General Chemistry	4
Eng. 101—Sophomore English		Psych. 1—General Psychology	3
Literature or		Zool. 116—Animal Communities	4
Eng. 111—The Chief American Writers	3	Electives*	4-6
Zool. 119—General Entomology	4		
Electives* 4-6			

Junior Program

Math. 125—Elementary Statistics	3	Eng. 171—Sophomore Exposition	3
Zool. 107—Principles of Heredity	3	Zool. 135—Elements of Physiology	4
Zool. 120—Comparative Vertebrate		Zool. 220—Advanced Entomology	4
Anatomy	4	Electives* 4-6	
Electives* 5-7			

Senior Program

Bot. 107—Classification of Plants	3	Phil. 103—Introduction to Philosophy	3
Zool. 225—Invertebrate Zoology	4	Zool. 226—Invertebrate Zoology	4
Electives* 8-10		Zool. 227—Animal Ecology	4
		Electives* 4-6	

Recommended electives: Agr. 1; Bot. 205, 206, 221, 222; Chem. 107; Ec. 101-102; Geog. 175; Geol. 125; Govt. 1, 2 or 101, 102; Hist. 1, 2 or 101, 102; Photog. 77; Phil. 1, 107, 117; Soc. 1, 2; Zool. 118, 125, 216. A reading knowledge in one foreign language (German, French, or Spanish) is required. Teaching requirements can be met by using electives properly.

PHYSICAL REHABILITATION

The following curriculum leading to the Bachelor of Arts degree, prepares men and women for work in physical rehabilitation, such as work in connection with hospitals, sanatoria, and for recreational positions with industrial concerns and municipalities.

The university requirements pertaining to physical education and speech are not indicated in the curriculum below. See page 70.

Freshman Program

The University College program should include:

	Hours		Hours
Eng. 3—English Composition	3	Eng. 4—English Composition	3
Foreign language†	4	Foreign language†	4
P. E. 6—Physical Activities (Men)	2	Ind. A. 9—Craft and Hobby Work	2
Zool. 3—Principles of Zoology	3	P. E. 7—Physical Activities (Men)	2
Electives‡		Zool. 4—Principles of Zoology	3
		Electives‡	

Sophomore Program

Eng. 101—Sophomore English Literature	3	Eng. 102—Sophomore English Literature	3
P. E. 102—Personal and Community		P. E. 150—Recreation	3
Health	3	Psychology	3
Psych. 1—General Psychology	3	Electives‡	
Zool. 123—Anatomy and Kinesiology	4		
Electives‡			

Junior Program

P. E. 119—Physical Activities (Men)	2	P. E. 120—Physical Activities (Men)	2
P. E. 127—First Aid	2	P. E. 128—Physical Therapy	2
P. E. 131—Mass Games (Women)	1	Social science elective* 3	
P. E. 133—Theory and Practice		Zool. 136—Elements of Physiology	4
of Adapted Activities	2	Electives‡	
P. E. 181—Intramural Sports	2		
Social science elective‡	3		
Electives‡			

Senior Program

Phil. 100—General Ethics	3	P. E. 18—Life Saving Methods	1
P. E. 167n—Teaching of Rhythmic		P. E. 167o—Teaching of Rhythmic	
Activities (Women)	1	Activities (Women)	1
P. E. 209—Tests and Measurements	3	P. E. 252—Physical Diagnosis	3
Phys. 5—Introduction to Physics	4	Phys. 6—Introduction to Physics	4
Electives‡		Electives‡	

*See requirements for Bachelor of Science degree.

†See requirement for Bachelor of Arts degree.

‡See requirements for University College.

GOVERNMENT FOREIGN SERVICE*

Students desiring to prepare for government foreign service are advised to make an early selection of the area or country in which they hope to serve and to acquire as full a knowledge as possible of that area or country on the following points: language and literature, history, government, geography, natural resources, economic life, philosophy, religion, art, and educational system. The general requirements for the Bachelor of Arts degree should be completed. See page 93.

The following sequence of courses is recommended for the first three years. The university requirements in English, physical education and speech are not indicated below. See pages 70 and 76.

Freshman Program

The University College program should include:

	Hours		Hours
Foreign language	4	Foreign language	4
Govt. 1—American Government	3	Govt. 2—American Government	3
Hist. 1—Western Civilization in		Hist. 2—Western Civilization in	
Modern Times	3	Modern Times	3
Natural science*	3	Natural science*	3

Sophomore Program

Eng. 101—Sophomore English Literature	3	Eng. 102—Sophomore English Literature	3
Foreign language	4	Foreign language	4
Geog. 101—Industrial and Commercial		Geog. 108—Geography of Europe or	
Geography or		Ec. 102—Principles of Economics	3
Ec. 101—Principles of Economics	3	Hist. 102—History of the	
Hist. 101—History of the		United States	3
United States	3	Soc. 2—Social Problems	3
Phil. 103—Introduction to Philosophy or			
Soc. 1—General Sociology	3		

Junior Program

Foreign language	3-4	Foreign language	3-4
Govt. 101—Comparative Government	3	Govt. 102—Comparative Government	3
Hist. 145—Latin American History or		Hist. 275—History of Russia or	
Hist. 150—The Far East	3	Hist. 251—The British Empire	3
Soc. 221—Contemporary Social		Phil. 202—History of Ideas: Modern or	
Movements or		Phil. 204—Advanced Social Philosophy	2-3
Geog. 210—Political Geography	3	Electives*	

Senior Program

Specilization as advised on area or country.

PREPARATION FOR PERSONNEL WORK. A student interested in personnel work may plan his course of study with the dean of the college in which his specialized interest is found. No detailed curriculum which will meet the needs of all students can wisely be set up. Training for personnel work should begin with a broad general education and then be followed by special studies for application in, for example, business, industry, labor organizations, labor-management relations, social work, education, rehabilitation work in foreign countries, or in counseling of students as deans of extracurricular life either at the high school or college level.

The College of Arts and Sciences is in a position to assist students who desire guidance and training for personnel work, and to cooperate with the other colleges which offer courses in this field. The student is advised to become well grounded in the social sciences, particularly such subjects as psychology, sociology, philosophy, economics, education, and government, and to counsel with the dean of the college in which his

*See requirements for Bachelor of Arts degree.

†It is suggested that a major be completed in history or government and a minor in a foreign language or English.

major work is found. Specialized study at the graduate level and direct field experience is desirable for those who expect to become proficient in personnel work and to secure positions of major responsibility.

PREPARATION FOR WORK IN LATIN-AMERICAN COUNTRIES. Students desiring to prepare for work in Latin-American countries in such fields, for example, as business, public health, or education are advised to study the Spanish and Portuguese languages, with emphasis on the spoken language, and to include in their studies the following courses: Art History 271; History 145, 255, and 257; Romance Languages—Portuguese 1-2 and Spanish 113 and 211; Geography 105; and selected courses in the College of Commerce.

PREPARATION FOR FEDERAL AND STATE BIOLOGICAL SERVICES. Botanical Services: Students interested in general administrative work in the United States forest service, in the botanical phases of the state and federal biological surveys and national park service, soil conservation service, and allied federal and state services, or in special technical positions with the federal and state governments, or private wood-using industries, or in research training leading to positions of professional status in forest pathology, plant pathology, plant physiology, forest and range ecology, agronomy, forestry, botany, and geobotany should consult with the chairman of the Department of Botany. See page 98 for pre-forestry curriculum.

Zoological Services: Students interested in insect control will find the curriculum on page 103. Students interested in fisheries, in the zoological phases of the wild life service and biological survey, and national park service should consult with the chairman of the Department of Zoology.

PREPARATION FOR SOCIAL WORK. The Department of Sociology is a member of the National Association of Schools of Social Administration and is prepared to give to a selected group of qualified students the university instruction and the field training required for certain staff positions with public and private agencies. The present program of the department is oriented toward training on both the undergraduate and the graduate levels. In addition, a number of courses are arranged to meet the in-service training needs of workers employed by public agencies and institutions. Inquiries regarding the details of the training program and admission requirements should be directed to the chairman of the department; applicants for admission to graduate studies should consult the Dean of the Graduate College as well.

The basis for professional training in social work is an adequate education in the liberal arts subjects with a concentration of studies in the social sciences. Students will elect sociology as a major and will choose a minor, or a second major, as desired, in a subject related to their line of specialization; e.g., economics, education, home economics, political science, psychology.† Students preparing for social case work in a family agency, public assistance office, aid for the aged office, child welfare agency, children's institution, juvenile court, public school,

†See requirements governing majors and minors.

American Red Cross, rehabilitation center, and similar case work performing agencies, will be expected to register for the background courses and the case work and field service courses as outlined in the curriculum below. Students preparing for group work, community organization, social statistics, government service, personnel work, probation and parole, correctional work in penal institutions, and similar callings in the field of social administration will substitute in the junior and senior years courses appropriate to their specialty. All student programs must have the approval of the department; no student will be admitted to case work, field work, and internship courses without permission of the chairman of the department.

SOCIAL CASE WORK

The following curriculum is arranged for those expecting to prepare for social case work.

The university requirements pertaining to physical education and speech are not indicated in the curriculum below. See page 70.

Freshman Program

The University College program should include:

	Hours		Hours
Eng. 3—English Composition	3	Eng. 4—English Composition	3
Foreign language	4	Foreign language	1
Soc. 1—General Sociology	3	Psych. 1—General Psychology	3
Soc. 5—Rural Sociology	2	Soc. 2—Social Problems	3
Zool. 3—Principles of Zoology	3	Zool. 4—Principles of Zoology	3

Sophomore Program

Ec. 101—Principles of Economics	3	Ec. 102—Principles of Economics	3
Eng. 101—Sophomore English Literature	3	Eng. 102—Sophomore English Literature	3
Natural science or mathematics	3	Natural science or mathematics	3
Soc. 104—Community Organization	3	Phil. 1—Principles of Reasoning	3
Soc. 110—Psychological Factors in Society	3	Psych. 3—Child Psychology	3
Soc. 133—Fields of Social Work	2		

Junior Program

H. Ec. 123—Essentials of Nutrition	3	H. Ec. 251—Home Management	2
Soc. 135—Maternal and Child Health	3	Philosophy	3
Soc. 211—Criminology and Penology or		Psych. 113, or 216, or 203, or 204	2-3
Soc. 222—Juvenile Delinquency	3	Soc. 208—Marriage and the Family	3
Electives*	7-9	Soc. 224—Child Welfare	3
		Soc. 238—Observation in Social Agencies	1
		Soc. 239—Case Work I	2

Senior Program

Psych. 210—Mental Hygiene or		Soc. 139—Medical Information for	
Psych. 212—Abnormal Psychology	3	Social Workers	3
Soc. 137—Social Statistics	3	Soc. 241—Juvenile Court Services I or)	
Soc. 218—Urban Sociology or		Soc. 243—Child Welfare Services or)	
Soc. 106—Rural Social Organization	2-3	Soc. 246—Family Welfare Services or)	
Soc. 240—Case Work II	2	Soc. 257—Internship Training in	
Soc. 245—Family Welfare Services	2	Social Agencies	3-8
Electives*	3	Electives*	7-9

Graduate Professional Curriculum for Social Work. Students admitted to the graduate professional curriculum must satisfy the requirements of the Graduate College leading to the Master of Arts degree** with modification as follows: The student's undergraduate studies must have included work in the biological sciences and a minimum

*See requirements for Bachelor of Arts degree.

†By careful planning during the junior and senior years a student may arrange to do the field work on a full-time basis in a recognized social agency for a period of nine weeks or an entire semester.

**See requirements governing admission to the Graduate College.

of twenty semester hours in the social sciences—sociology, economics, political science, and psychology; the student's graduate program must include a minimum of twenty-two semester hours of graduate courses in social work and closely allied subjects, four semester hours of thesis research, and from eight to twelve semester hours of field work in an accredited social agency. This program may normally be completed in two semesters of residence work, and one semester, or summer, of field work. Modifications in the program will be made to meet the needs of students who expect to be employed in other than social case work services, and for students offering professional study or work experience toward advanced standing.

In-Service Training Courses. A number of professional courses have been arranged to meet requests on the part of state and local welfare units for staff training on the in-service basis. In the past, groups of workers from the divisions of aid for the aged, public assistance, and from juvenile courts have availed themselves of this training opportunity. University credit is granted on both the undergraduate and graduate levels.

PREPARATION FOR TEACHERS. A student who desires to receive the degree of Bachelor of Arts or Bachelor of Science may qualify for a certificate to teach in the secondary schools by completing the requirements for certification. See the summary of courses required by the State Department of Education given under the heading "Teaching Certificates."

PREPARATION FOR LAWYERS. A student in the College of Arts and Sciences who plans to enter a school of law should complete the specific requirements for the degree of Bachelor of Arts. No special curriculum is prescribed. The student is advised to take work in English and speech and in the social sciences with emphasis on government, history, philosophy, economics, and sociology.

A student who desires to enter a school of law at the end of three years of college work and receive the Bachelor of Arts degree from Ohio University after completing his first year in law school may do so. To be eligible for the degree he must complete the specific degree requirement, earn a total of 94 semester hours with a point-hour ratio of 2.0 in all hours attempted, and complete one year's work in an accredited law school with an average grade of C, or above, or the equivalent. Before entering the law school, the student must secure a statement in writing from the Dean giving the senior-in-absentia privilege.

PREPARATION FOR OTHER PROFESSIONS. Special curricula are not prescribed for students who are preparing for public administration, or the ministry. A broad cultural education with emphasis on the student's interests is recommended for those preparing for these vocational fields. Those who plan to enter public administration should take work in social science with emphasis upon government, history, economics, and sociology. The preparation for theology should include emphasis on English literature; the social sciences, especially philosophy and psychology; and Latin or Greek, preferably Greek.

THE COLLEGE OF COMMERCE

A. H. ARMBRUSTER

DEAN

Accounting
Advertising
Agriculture
Business Law
Economics
Finance
Management
Marketing
Secretarial Studies
Statistics

THE SCHOOL OF JOURNALISM

GEORGE STARR LASHER, DIRECTOR

News Writing and Editing
Feature and Magazine Writing
Newspaper Advertising
Business Management
Radio Journalism
Pictorial Journalism
Public Relations

THE COLLEGE OF COMMERCE

Consistent with its character and history as a pioneer educational institution, Ohio University inaugurated courses in accounting and secretarial studies in 1893 at a time when few colleges and universities offered instruction in commerce or business administration. As the conception of collegiate training for business broadened, the offerings were steadily expanded until today the College of Commerce offers comprehensive programs of study in business and in economics which lead to the degree of Bachelor of Science in Commerce.

The College also includes the Department of Agriculture, which offers programs of study leading to the degree of Bachelor of Science in Agriculture, the Department of Secretarial Studies, which offers programs of study leading to the degree of Bachelor of Science in Secretarial Studies, and the School of Journalism, which offers theoretical and practical programs of study leading to the degree of Bachelor of Science in Journalism.

It is deemed as essential to teach students the art of living as it is to teach them how to earn a living. Further, it is a duty of every college graduate to participate in and, if possible, to assume responsibility for intelligent leadership in civic, governmental, professional, and social activities of life. Every student in the College of Commerce, therefore, is required to take some courses offered by the other colleges of the University in order to widen his scope of knowledge and interest.

Through a wise use of the elective hours given in all programs of study in the College of Commerce, a student may stress an interest by choosing courses offered by any other college of the University. Such courses are open to students in the College of Commerce on the same basis as they are open to students in those colleges. The College of Commerce, in turn, aims to serve students enrolled in the other colleges of the University and admits them to its courses on the same basis as students registered in the College of Commerce.

The mutual relationship between the colleges whereby a student in one college may take courses in another gives a breadth of combinations in education which only a university can offer. Specific noteworthy examples of the relationship which exists between the colleges of the University are to be found in teacher training and industrial engineering. The Colleges of Education and Commerce cooperate in offering teaching majors in agriculture and commerce and the Colleges of Applied Science and Commerce cooperate in offering industrial engineering. However, it is impossible to set up predetermined curricula for each and every possible combination. For this reason, the College of Commerce stresses its faculty advisory system for students. Each student is assigned to, or, with the consent of the Dean, he may choose as an adviser, a member of the faculty who is a specialist in the student's field of interest. Student and adviser together then mold the skeletal outlines of courses into an integrated program of study best suited to the student's individual needs.

All candidates for degrees in the College of Commerce complete the general university requirements for graduation which include a minimum of 124 semester hours with a point-hour ratio of 2.0 in all hours attempted. The total hours include the requirements of the University College and, normally, six additional semesters of work which comprise approximately 94 approved semester hours.

BACHELOR OF SCIENCE IN AGRICULTURE

Three curricula are offered in agriculture. Each leads to the degree of Bachelor of Science in Agriculture. For a teaching major see page 126.

The curriculum in *General Agriculture* is designed for those who desire a broad agricultural training rather than an intensive specialization in any one phase of the field. The practical application of scientific agriculture is stressed in the laboratories and in the training received on the University Farm.

The curriculum in *Preforestry* is offered as a part of the conservation program of the University. It enables the student to meet the requirements of a standard school of forestry with only a small amount of additional training in a summer camp or in a forestry school. A student pursuing this curriculum may choose to meet the requirements for the Bachelor of Arts degree in botany. This can be done with the consent of the student's adviser and the proper selection of approved electives.

The curriculum in *Soil Conservation* also is offered as a part of the conservation program of the University. It is designed for those who wish to prepare for work in the various phases of soil conservation.

CURRICULA IN AGRICULTURE

The university requirements pertaining to English composition, physical education and speech are not indicated in the curricula below. See pages 70 and 76.

GENERAL AGRICULTURE

Freshman Program

The University College program should include:

First Semester	Hours	Second Semester	Hours
Bot. 1—General Botany -----	3	Agr. 1—General Agriculture -----	3
Ind. A. 51—Farm Shop I* -----	3	Bot. 2—General Botany -----	3
		Ind. A. 52—Farm Shop II -----	3

Sophomore Program

Agri. 3—Forestry -----	3	Agri. 4—Silviculture -----	3
Agri. 121—Types and Breeds of Farm Animals -----	3	Agri. 102—Vegetable Gardening -----	3
Chem. 1 or 3—General Chemistry -----	4	Agri. 127—Types, Breeds, and Management of Poultry -----	3
Zool. 3—Principles of Zoology -----	3	Chem. 2 or 4—General Chemistry -----	4
Ec. 101—Principles of Economics -----	3	Zool. 4—Principles of Zoology -----	3
	16		16

Junior Program

Agri. 103—Fruit Growing -----	3	Agri. 104—Small Fruits -----	3
Agri. 131—Floriculture and Greenhouse Management -----	2	Agri. 109—Landscape Gardening -----	3
Agri. 143—Plant and Animal Breeding -----	3	Agri. 135—Farm Management -----	3
Bot. 205—Plant Physiology -----	4	Zool. 119—General Entomology -----	4
Zool. 141—Elementary Bacteriology -----	4	Bot. 221—Plant Pathology -----	3
			16

16

*Not required of those who have had vocational agriculture shop in high school.

Senior Program

Agr. 115—Soils and Fertilizers	3	Agr. 116—Field Crops	3
Agr. 124—General Dairying	3	Agr. 202—Farm Practices	3
Agr. 201—Farm Practices	3	Approved Electives	10
Approved Electives	7		
	16		16

PREFORESTRY**Freshman Program**

The University College program should include:

First Semester	Hours	Second Semester	Hours
Bot. 1—General Botany	3	Bot. 2—General Botany	3
Math. 5—Freshman Mathematics	5	Agr. 1—General Agriculture	3

Sophomore Program

Chem. 1 or 3—General Chemistry	4	Chem. 2 or 4—General Chemistry	4
C. E. 10—Plane Surveying	3	E. D. 1—Engineering Drawing	2
Ee. 101—Principles of Economics	3	Zool. 4—Principles of Zoology	3
Zool. 3—Principles of Zoology	3	Agr. 109—Landscape Gardening	3
Bot. 117—Dendrology	3	Electives	4
	16		16

Junior Program

Agr. 3—Forestry	3	Agr. 4—Silviculture	3
Geol. 125—Principles of Geology	3	Ind. A. 52—Farm Shop II	3
C. E. 110—Topographic Surveying	2	Bot. 218—Wood Technology	3
Bot. 205—Plant Physiology	4	Agr. 117—Soil Conservation	3
Ind. A. 51—Farm Shop I*	3	Electives	4
	15		16

Senior Program

Agr. 110—Nursery Practices	3	Bot. 221—Plant Pathology	3
Agr. 115—Soils and Fertilizers	3	Electives	13
Zool. 119—General Entomology	4		
Bot. 203—Principles of Plant Ecology	4		
Electives	2		16
	16		

SOIL CONSERVATION**Freshman Program**

The University College program should include:

First Semester	Hours	Second Semester	Hours
Bot. 1—General Botany	3	Bot. 2—General Botany	3
Math. 5—Freshman Mathematics	5	Agr. 1—General Agriculture	3

Sophomore Program

Chem. 1 or 3—General Chemistry	4	Chem. 2 or 4—General Chemistry	4
Geol. 125—Principles of Geology	3	Agr. 3—Forestry	3
Geog. 122—Conservation of Natural Resources	3	C. E. 10—Plane Surveying	3
Electives	6	Electives	6
	16		16

Junior Program

Agr. 115—Soils and Fertilizers	3	Agr. 116—Field Crops	3
Bot. 107—Classification of Plants	3	Agr. 117—Soil Conservation	3
Phys. 5—Introduction to Physics	4	Agr. 135—Farm Management	3
Zool. 3—Principles of Zoology	3	Bot. 203—Principles of Plant Ecology	4
Electives	3	Electives	3
	16		16

Senior Program

Agr. 4—Silviculture	3	Ind. A. 52—Farm Shop II	3
Bot. 221—Plant Pathology	3	Agr. 201 or 202—Farm Practices	3
Zool. 119—General Entomology	4	Electives	10
Ind. A. 51—Farm Shop I*	3		
Electives	3		16
	16		

*Not required of those who have had vocational agriculture shop in high school.

BACHELOR OF SCIENCE IN COMMERCE

All students pursuing programs of study leading to the degree of Bachelor of Science in Commerce must take the basic subjects indicated in the sophomore, junior, and senior programs of the curriculum outlined below. The sequence of the courses introduces a logical development of the student's knowledge but it can be varied to fit his or her particular interest.

The core curriculum permits a maximum of elective hours through which the needs of each individual student may be met and his interests may be developed. There are only two limitations on the choice of elective hours. They must be chosen so that no fewer than 54 semester hours required for graduation are in commerce and economic subjects, and no fewer than 47 semester hours are in subjects offered in other fields. This distribution of semester hours includes those earned in the University College and the basic subjects listed in the curriculum outline. The second limitation on the choice of elective semester hours is that they must be approved by the Dean of the College or the student's faculty adviser. This approval safeguards the student's own best interests.

FIELDS OF SPECIALIZATION. It is felt that a student who pursues a program of studies leading to the degree of Bachelor of Science in Commerce automatically has chosen a field of concentration. Further concentration, therefore, by way of a major is not required; however, additional specialization may prove desirable, especially when a student seeks employment, and it is recommended. Some of the fields which may be stressed are listed below. Others based on a student's particular interest may be developed.

ACCOUNTING

General accounting
Cost accounting
Public (C.P.A.) accounting

BUSINESS LAW

DISTRIBUTION

Marketing
Advertising
Retailing
Selling and sales management
Transportation

ECONOMICS

Economic history
Economic theory
Business cycles
General
International
Labor relations
Public utilities

FINANCE

Banking
Business finance
Insurance
Investments

GOVERNMENT

Economic control
Fiscal policy

MANAGEMENT

Personnel administration
Production management

PREPARATION FOR LAW SCHOOL

STATISTICS

Detailed information about the possibilities of developing a special interest may be obtained from the office of the Dean.

CURRICULUM IN COMMERCE

The university requirements pertaining to English composition, physical education and speech are not indicated in the curriculum below. See pages 70 and 76.

Freshman Program

The freshman program will be determined largely by the requirements of the University College. Courses suggested for consideration but not required in the curriculum are: Ec. 1—Economic Development of the United States; Ec. 3—Contemporary Economic Society; Ec. 15—Economic Geography; and Soc. 1—General Sociology. Acct. 75-76—Elementary Accounting, which is a curriculum requirement, is strongly recommended for the freshman year, especially for those students who plan to specialize in this field.

Sophomore Program

Acct. 75—Elementary Accounting	3	Acct. 76—Elementary Accounting	3
Ec. 101—Principles of Economics	3	Ec. 102—Principles of Economics	3
Fin. 101—Money and Credit*	3	Fin. 121—Business Finance*	3
Mkt. 155—Marketing Principles*	3	Advt. 155—Advertising Principles†	3
Electives	4	Eng.—Elective*	2-3
		Electives	2
	16		16-17

Junior Program

Bus. L. 155—Business Law	3	Bus. L. 156—Business Law	3
Mgt. 201—Production Management	3	Ec. (advanced)—Elective*	2-3
Stat. 155—Business Statistics	3	Stat. 156—Business Statistics	3
Sec. St. 120—Business Letter Writing*	3	Electives	8
Electives	4		
	16		16-17

Senior Program

Bus. L. 175—Government and Business*	3	Phil. 111—Business and Professional Ethics*	2
Electives	14	Electives	15
	17		17

PREPARATION FOR LAW SCHOOL. A student in the College of Commerce who plans to enter law school should pursue the usual commerce curriculum and also elect, with the approval of his adviser, courses in other fields, especially American government, American and English history, English, philosophy, and public speaking.

A student who plans to enter law school before graduation from the College of Commerce may still receive the Bachelor of Science in Commerce degree, provided the following conditions are met: (1) the student has the written approval of the Dean; (2) the requirements of the University College are met; (3) a minimum of 94 approved semester hours are completed with a point-hour ratio of at least 2.0 in all hours attempted; and (4) a full year's work in an accredited law school is completed with at least an average grade of C or its equivalent.

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

Recognizing the need and the increasing demand that executives in industry have a knowledge of and training in economics and business management, the College of Applied Science in cooperation with the College of Commerce offers a curriculum in industrial engineering. This is given in outline form under "College of Applied Science."

BACHELOR OF SCIENCE IN SECRETARIAL STUDIES

In order to prepare secretaries for responsible positions in business and other offices, the curriculum leading to the degree of Bachelor of Science in Secretarial Studies affords students the same opportunity for taking basic business courses and non-business courses as does the curriculum for the Bachelor of Science in Commerce degree. Persons completing the work for the degree are trained not only to take positions as

*May be taken either semester.

†Mgt. 212 may be substituted.

‡Mkt. 155 or Mkt. 201 may be substituted.

secretaries but also to use their technical skills and training as a stepping stone to other positions in business.

The secretarial studies curriculum is so designed that the number of hours required in secretarial, commerce, and economic subjects is 69 and the minimum number of semester hours required in other fields is 49. Students entering with high school credits in shorthand or typewriting are required to take placement tests to determine the level of the courses they should enter in these subjects. Whenever test results indicate an inability to meet the prerequisites for the advanced courses in typewriting or shorthand, the student may enroll in the beginning courses in these subjects. The credit earned, however, will be added to the hours required for graduation. Where proficiency eliminates the elementary courses, students may substitute other subjects in areas approved by their advisers.

Special care is taken to enable students to secure carefully supervised practice in the secretarial fields as a part of the curriculum. This practice includes the use of all representative office machinery and experience in using secretarial techniques under normal business office conditions.

Before students are recommended for the Bachelor of Science in Secretarial Studies degree, they must pass proficiency tests in shorthand and typewriting. These tests are similar to those given in business for the selection of employees.

CURRICULUM IN SECRETARIAL STUDIES

The university requirements pertaining to English composition, physical education and speech are not indicated in the curriculum below. See pages 70 and 76.

Freshman Program

The freshman program will be determined largely by the requirements of the University College. Courses suggested for consideration but not required in the curriculum are: Ec. 1—Economic Development of the United States; Ec. 3—Contemporary Economic Society; Ec. 15—Economic Geography; and Soc. 1—General Sociology. Sec. St. 15-16—Typewriting and Sec. St. 31-32—Shorthand are curriculum requirements and should be included in the freshman program except for those students who enter with high school credits in these subjects and whose placement test results permit substitute courses.

Sophomore Program

Acct. 75—Elementary Accounting ----- 3	Acct. 76—Elementary Accounting ----- 3
Ec. 101—Principles of Economics ----- 3	Ec. 102—Principles of Economics ----- 3
Sec. St. 15—Typewriting or ----- 2-3	Sec. St. 16—Typewriting or ----- 2-3
Sec. St. 31—Shorthand ----- 2-3	Sec. St. 32—Shorthand ----- 2-3
Psych. 1—General Psychology ----- 3	Eng.—Elective* ----- 2-3
Eng.—Elective ----- 2-3	Electives ----- 5-6
Electives ----- 3	
	15-18
16-18	

Junior Program

Mkt. 155—Marketing Principles† ----- 3	Advt. 155—Advertising Principles‡ ----- 3
Sec. St. 120—Business Letter Writing* ----- 3	Sec. St. 152—Advanced Dictation and Transcription ----- 5
Sec. St. 151—Beginning Dictation and Transcription ----- 5	Sec. St. 171—Secretarial Theory ----- 2
Sec. St. 172—Secretarial Theory ----- 2	Sec. St. 185—Office Management ----- 3
Electives ----- 3	Eng.—Elective ----- 2-3
	15-16

*May be taken any semester.

†It is suggested that these foundation courses be carried in the third and fourth year according to the interests of the student. For example, if a student wishes to carry advanced work in banking and finance, it is recommended that the foundation courses in this field be carried in the third year.

‡Mkt. 158 or Mkt. 201 may be substituted.

Senior Program			
First Semester	Hours	Second Semester	Hours
Mgt. 212—Administration of Personnel	3	Bus. L. 156—Business Law	3
Bus. L. 155—Business Law	3	Fin. 101—Money and Credit [†]	3
Fin. 121—Business Finance	3	Sec. St. 175—Secretarial Practice	4
Sec. St. 111—Typewriting	2	Electives	7
Electives	6		7
	17		17

BUSINESS TEACHER TRAINING. Students trained to teach business subjects in the high school should be as well prepared in the basic business and technical subjects as those trained to enter business offices. In order to prepare students for effective teaching of business subjects, the College of Education in cooperation with the College of Commerce offers comprehensive majors in the business fields. These majors, which include bookkeeping-social business, business education, economics, salesmanship-merchandising, and stenography-typing, are outlined under the College of Education (page 129) and also under the heading, "Teaching Certificates" (page 134).

Students preparing to teach are expected to meet the same standards as those entering business, and they are required to pass a proficiency test in shorthand and in typewriting before they are recommended for graduation. Students also are given an opportunity to apply their skills and knowledge through actual working experiences.

BACHELOR OF SCIENCE IN JOURNALISM

Because of the development of new media of communication and publication, journalism has steadily expanded until today training in that field demands specialization. Ohio University's School of Journalism offers seven definite curricula: *News Writing and Editing*, *Feature and Magazine Writing*, *Newspaper Advertising*, *Business Management*, *Radio Journalism*, *Pictorial Journalism*, and *Public Relations*. Preparation for teaching journalism is also offered in conjunction with the College of Education. As far as possible in all the curricula, practical experience is given along with instruction in theory. As a result, while working toward their degrees, students serve on the staff of a daily newspaper under the direction of news and business executives; become acquainted with type and make-up problems in a well-equipped typography laboratory; prepare scripts and broadcast them over WOUI, the University's AM and FM radio station; take pictures with various kinds of cameras, develop and print them in the finest photography laboratories to be found on a university campus, and then make engravings from them; study the media used in public relations activities and work out projects of various types. They thus meet situations almost identical with those they will face when they start their professional careers.

Combined with the student's selection from journalism and allied courses is a broad, cultural background in which emphasis is placed upon literature, economics, finance, government, history, art, music, philosophy,

[†]It is suggested that these foundation courses be carried in the third and fourth year according to the interests of the student. For example, if a student wishes to carry advanced work in banking and finance, it is recommended that the foundation courses in this field be carried in the third year.

[‡]Mkt. 158 or Mkt. 201 may be substituted.

psychology, and sociology. Development of specific fields of interest is encouraged. Special courses without journalism prerequisites are available for those who wish to write for magazines and trade journals and for those who plan to supervise high school publications or teach journalism in high schools.

The requirements for the different curricula are made up of the University College program and offerings from various colleges of the University, as well as those of the School of Journalism. The courses within the curricula may be varied to meet the needs of students who have special interests which they would like to pursue. All curricula permit a student to take electives in any field he may desire.

CURRICULA IN JOURNALISM

In the curricula that follow the university requirements pertaining to English composition, physical education and speech are not indicated. See pages 70 and 76.

Freshman Program

In the University College all journalism students should take Hist. 1-2—Western Civilization in Modern Times (6); Psych. 1—General Psychology (3); and Sec. St. 15—Typewriting (2) unless they can operate a typewriter efficiently. All students except those specializing in advertising or business management should include F. A. 17—Introduction to the Fine Arts (3). Students planning for pictorial journalism or public relations should include Design 11—Basic Design.

If a course in science is required by the University College program, students should take Zool. 3-4—Principles of Zoology (6) or Bot. 3-4—The Living World (6). If a foreign language is taken, a choice should be made from French, German, Spanish, and Italian. F. A. 17-18—Introduction to the Fine Arts will take care of a requirement in the Humanities to best advantage. Sociology should not be taken until the sophomore year and then in the special section reserved for journalism students.

NEWS WRITING AND EDITING

Sophomore Program

First Semester	Hours	Second Semester	Hours
Ec. 101—Principles of Economics	3	Ec. 102—Principles of Economics	3
Govt. 101—Comparative Government	3	Jour. 107—Newspaper Reporting	3
Jour. 103—Introduction to News Writing	3	Jour. 146—Typography, Mechanics,	
Jour. 105—The Newspaper	2	and Make-Up	3
Soc. 1—General Sociology	3	Soc. 2—Social Problems	3
Radio 179—Introduction to Radio	2		

Junior Program

Jour. 117—Newspaper Editing	3	Jour. 111—Reporting Practice	3
Jour. 151—Contemporary Thought and Developments	3	Jour. 152—Contemporary Thought and Developments	3
Jour. 243—Newspaper Management	2-3	Photog. 133—News Photography	2
Photog. 77—Basic Photography	3		

Senior Program

Jour. 111—Reporting Practice	3	Jour. 121—Editing Practice	2
Jour. 121—Editing Practice	2	Jour. 206—Newspaper Law	2
Jour. 207—Reporting of Public Affairs	2	Jour. 208—Journalism Ethics	2
Jour. 225—The Editorial Page	3		

FEATURE AND MAGAZINE WRITING

Sophomore Program

Ec. 101—Principles of Economics	3	Ec. 102—Principles of Economics	3
Eng. 101—Sophomore English Literature	3	Eng. 102—Sophomore English Literature	3
Jour. 103—Introduction to News Writing	3	Eng. 150—The Short Story	2
Jour. 105—The Newspaper	2	Jour. 107—Newspaper Reporting	3
Soc. 1—General Sociology	3	Mus. 131—Background for Music	
Radio 179—Introduction to Radio	2	Criticism	2
		Soc. 2—Social Problems	3

Junior Program

Dram. A. 103—Contemporary Theatre	3	Jour. 117—Newspaper Editing	3
Eng. 175—Creative Writing	2	Jour. 130—Book Reviewing	2
Jour. 111—Reporting Practice	3	Jour. 152—Contemporary Thought and	3
Jour. 151—Contemporary Thought and	3	Developments	3
Developments	3	Jour. 222—Feature and Magazine	3
		Writing	3

Senior Program

Jour. 225—The Editorial Page	3	Jour. 134—Writing of Criticism	2
Jour. 223—Advanced Feature and	2	Jour. 208—Journalism Ethics	2
Magazine Writing	2	Photog. 133—News Photography	2

NEWSPAPER ADVERTISING

Sophomore Program

First Semester	Hours	Second Semester	Hours
Acct. 75—Elementary Accounting	3	Advt. 155—Advertising Principles	3
Ec. 101—Principles of Economics	3	Ec. 102—Principles of Economics	3
Jour. 103—Introduction to News Writing	3	Jour. 107—Newspaper Reporting	3
Design 147—Advertising Design	2	Jour. 146—Typography, Mechanics,	3
Jour. 105—The Newspaper	2	and Make-Up	3
Mkt. 155—Marketing Principles	3	Radio 179—Introduction to Radio	2

Junior Program

Mkt. 171—Principles of Personal Selling	2	Advt. 186—Retail Advertising	3
Mkt. 201—Retail Selling Policies	3	Jour. 248—Advertising Production	2
Jour. 247—Newspaper Advertising and	3	Radio 209—Radio Advertising	2
Layout	3		
Jour. 243—Newspaper Management	2-3		

Senior Program

Jour. 151—Contemporary Thought and	3	Jour. 152—Contemporary Thought and	3
Developments	3	Developments	3
Jour. 177—Newspaper Advertising	3	Jour. 177—Newspaper Advertising	3
Practice	3	Practice	3
Advt. 232—Copy Writing	2	Jour. 208—Journalism Ethics	2

BUSINESS MANAGEMENT

Sophomore Program

First Semester	Hours	Second Semester	Hours
Acct. 75—Elementary Accounting	3	Acct. 76—Elementary Accounting	3
Ec. 101—Principles of Economics	3	Advt. 155—Advertising Principles	3
Jour. 103—Introduction to News Writing	3	Ec. 102—Principles of Economics	3
Jour. 105—The Newspaper	2	Jour. 107—Newspaper Reporting	3
Mkt. 155—Marketing Principles	3	Jour. 146—Typography, Mechanics,	3
		and Make-Up	3

Junior Program

Bus. L. 155—Business Law	3	Advt. 276—Advertising Problems	3
Jour. 151—Contemporary Thought and	3	Bus. L. 156—Business Law	3
Developments	3	Jour. 152—Contemporary Thought and	3
Jour. 243—Newspaper Management	2-3	Developments	3
Jour. 247—Newspaper Advertising and	3	Jour. 177—Newspaper Advertising	3
Layout	3	Practice	2

Senior Program

Jour. 173—Newspaper Circulation	2	Jour. 206—Newspaper Law	2
Practice	2	Jour. 208—Journalism Ethics	2
Mkt. 171—Principles of Personal Selling	2		
Mkt. 201—Retail Selling Policies	3		

RADIO JOURNALISM

Sophomore Program

First Semester	Hours	Second Semester	Hours
Speech 2—Voice and Articulation	2	Ec. 102—Principles of Economics	3
Ec. 101—Principles of Economics	3	Jour. 107—Newspaper Reporting	3
Jour. 103—Introduction to News Writing	3	Radio 179—Introduction to Radio	2
Soc. 1—General Sociology	3	Soc. 2—Social Problems	3

Junior Program

Radio 5—Radio Speech -----	2	Jour. 152—Contemporary Thought and Developments -----	3
Jour. 111—Reporting Practice -----	3	Radio. 105—Radio Broadcasting Mechanics -----	2
Jour. 151—Contemporary Thought and Developments -----	3	Radio 180—Radio News Writing and Editing -----	2
Mus. 131—Background for Music Criticism -----	2	Radio 208—Radio Advertising -----	2

Senior Program

Radio 125—Radio Play Production -----	3	Radio 185—Radio News Practice -----	2
Radio 185—Radio News Practice -----	2	Radio 247—Radio Workshop -----	2
Radio 211—Radio Management -----	2	Jour. 208—Journalism Ethics -----	2
Radio 216—Writing for Radio -----	2		

PICTORIAL JOURNALISM**Sophomore Program**

First Semester	Hours	Second Semester	Hours
Ec. 101—Principles of Economics -----	3	Ec. 102—Principles of Economics -----	3
Jour. 103—Introduction to News Writing -----	3	Jour. 107—Newspaper Reporting -----	3
Jour. 105—The Newspaper -----	2	Jour. 146—Typography, Mechanics, and Make-Up -----	3

Junior Program

Jour. 111—Reporting Practice -----	3	Jour. 117—Newspaper Editing -----	3
Photog. 77—Basic Photography -----	3	Jour. 222—Feature and Magazine Writing -----	3
Design 147—Advertising Design -----	2	Photog. 133—News Photography -----	2

Senior Program

Jour. 148—Photo Engraving -----	2	Jour. 208—Journalism Ethics -----	2
Photog. 145—Workshop in Photography	3	Photog. 145—Workshop in Photography	3

PUBLIC RELATIONS**Sophomore Year**

Ec. 101—Principles of Economics -----	3	Ec. 102—Principles of Economics -----	3
Jour. 103—Introduction to News Writing	3	Radio 179—Introduction to Radio -----	2
Jour. 105—The Newspaper -----	2	Jour. 107—Newspaper Reporting -----	3
Jour. 146—Typography, Mechanics, and Make-Up -----	3	Speech. 3—Public Speaking -----	2
Advt. 155—Advertising Principles -----	3	Soc. 2—Social Problems -----	3
Soc. 1—General Sociology -----	3		

Junior Year

Mkt. 171—Principles of Personal Selling	2	Psych. 6—Psychology of Advertising and Selling -----	3
Jour. 111—Reporting Practice -----	3	Ec. 235—Labor Economics -----	3
Jour. 151—Contemporary Thought and Developments -----	3	Jour. 152—Contemporary Thought and Developments -----	3
Jour. 247—Newspaper Advertising and Layout -----	3	Jour. 248—Advertising Production -----	2
Photog. 77—Basic Photography -----	3	Ec. 229—Comparative Economic Systems -----	2 or 3

Senior Year

Jour. 227—Public Relations Techniques	2	Jour. 228—Public Relations -----	3
H. R. 203—Human Relations -----	3	H. R. 204—Human Relations -----	3
Mgt. 212—Administration of Personnel	3	Psych. 215—Social Psychology -----	3
		Jour. 208—Journalism Ethics -----	2
		Advt. 232—Copy Writing -----	2



THE COLLEGE OF EDUCATION

GEORGE J. KABAT

DEAN

Elementary Education

Secondary Education

Teaching Special Subjects

Combined Elementary-Secondary Education

**School Administration, Supervision and
Personnel Service**

Library Administration

Research and Scientific Techniques

History and Philosophy of Education

**Student Teaching and Observation and
Participation**

Teaching Certificates

THE COLLEGE OF EDUCATION

The College of Education is devoted to the education of men and women who intend to enter the fields of teaching and educational administration. A wide range of programs prepares students for teaching in elementary schools, high schools, and colleges, for positions as school principals, superintendents, or supervisors, and for such specialized educational work as that of the guidance counselor or school psychologist.

All these programs include a broad base of general education, intensive preparation in the subjects to be taught, and professional emphasis and focus which combine educational theory with actual practice in meeting the responsibilities of the profession. Each program is thus designed to prepare students to enter the profession possessing the liberal background, the functional knowledge and the professional understanding and skill which are requirements for professional success.

BACHELOR OF SCIENCE IN EDUCATION

The degree, Bachelor of Science in Education, represents the completion of a program designed to develop in the student competence in three areas: in the broad awareness of the principal academic fields developed through a true university education; in the deeper study of the particular studies in which the student seeks the undergraduate mastery necessary for teaching these subjects; and in the understanding of the professional responsibilities of teaching, and demonstrated skill in meeting them.

The degree is granted upon completion of the general graduation requirements of the University (including a minimum of 124 semester hours with a point-hour ratio of 2.0 in all hours attempted), and of one of the approved programs of specialization in a field of educational service. These programs are of four main types:

Elementary education. This program prepares for teaching in kindergarten, primary, or intermediate grades, with specialization in one of these groups. Despite the recent considerable improvements in salary and other inducements, the demand for qualified elementary teachers in Ohio is expected to be about three times the supply for the next five or six years. (See page 124.)

Secondary education. This program prepares for teaching any of the academic fields in high school. Students planning to teach at this level will be prepared in two or more minor teaching subjects, in addition to their major field. Such minors should be carefully selected in consultation with the student's adviser or the Dean of the College of Education, in the light of the student's interest and of probable opportunities for employment. (See outlines for the state minors in Ohio on page 125.)

Teaching special subjects. Such special subjects as art, commerce, home economics, industrial arts, music, physical education, or speech are ordinarily not limited to any grade level. Students who major in

these subjects will be prepared to teach their specialty in both elementary and high school, and thus may qualify for the more attractive employment opportunities. Special subject majors are also required to have one minor. (See page 129.)

Combined elementary-secondary education. Through this comprehensive program, students are qualified both as elementary school teachers and as teachers of certain academic subjects in high school. Regular certification at both levels will be granted by the State Department of Education to graduates of this program, which thus gives the widest possible choice of employment opportunities. The broad preparation for teaching, without undue sacrifice of subject-matter specialization, is particularly appropriate for those students who look forward to posts of responsibility as supervisors or administrators. (See page 132.)

ELEMENTARY EDUCATION

The following program includes all requirements, except those established by deficiencies in the high school pattern, for students who plan to specialize in elementary education; i.e., kindergarten-primary or intermediate grades:

Freshman Program			
First Semester	Hours	Second Semester	Hours
Ed. 3—Orientation in Childhood Education	3	Eng. 4—English Composition	3
Eng. 3—English Composition	3	Hist. 2—Western Civilization in Modern Times	3
Hist. 1—Western Civilization in Modern Times	3	Bot. 4—The Living World	3
Bot. 3—The Living World	3	Psych. 1—General Psychology	3
Phys. 1—The Physical World	3	Mus. 71—Introduction to Music for Elementary Teachers	2
P. E. 1—Physical Education	1	Speech 1—Fundamentals of Speech	1
		P. E. 2—Physical Education	1
Sophomore Program			
Psych. 3—Child Psychology or Psych. 5—Educational Psychology	3	Soc. 107—Educational Sociology	3
Soc. 1—General Sociology	3	Geog. 150—Geography and Environment	3
Ed. 103—Studies of Children	3	Mus. 166e—Teaching of Music in Elementary Grades	2
Mus. 72—Music Fundamentals	2	Eng. 102—Sophomore English Literature	3
Design 3—Elementary Design for Teachers	2	Hist. 101 or 102—History of United States	3
H. Ec. 55—Home Economics for the Elementary School	2	Art. Hist. 157—Appreciation of the Space Arts	1
P. E.—Physical education	1	P. E.—Physical education	1
Junior Program			
Ed. 163j—Teaching Arithmetic in the Elementary School	3	Ed. 172—Student Teaching in Elementary Grades	7
Ind. A. 115—Elementary Industrial Arts	1	Ed. 110—Student Teaching Laboratory	4
P. E. 102—Personal and Community Health	3	Ed. 169f—Teaching Social Studies and Science in the Elementary School	3
Design 160c—Practical Design Workshop for Elementary Teachers	3	Ed. 163b—Teaching Reading and Language	8
Ed. 102—Literature for Children	3		
Electives	3		
Senior Program			
Ed. 177—Field Experience in Student Teaching	1-3	Ed. 212—Senior Conference in Elementary Education	2
Ed. 211—The Child and the Curriculum	3	Eng. 111 or 112—Chief American Writers	3
P. E. 167p—Teaching of Physical Education	1	Govt. 105—Current Political and Social Problems	2
Electives in Education	3-5	Electives	9
Electives	8		

THREE-YEAR DIPLOMA COURSES

During the period of acute teacher shortage, the College of Education will continue to offer three-year diploma courses for those who wish to become kindergarten-primary or intermediate grade teachers. These

three-year courses require the completion of the first six semesters of the regular program, with a minimum point-hour ratio of 2.0 in all hours attempted. The appropriate four-year provisional certificate will be issued upon the completion of this program.

SPECIAL CADET PROGRAM

To assist in meeting the critical shortage of elementary teachers, Ohio University has established a special two-year program. *The four-year provisional "cadet" certificate is granted upon the satisfactory completion of this accelerated course.* The work includes a broad liberal background, and concentration on direct professional preparation and supervised experience. Only those high school graduates who are superior both in academic aptitude and in social maturity, are encouraged to enter this program, which must be pursued in four successive regular semesters.

The program for the Cadet Provisional Certificate is as follows:

Freshman Program

First Semester	Hours	Second Semester	Hours
Eng. 3—English Composition	3	Eng. 4—English Composition	3
Hist. 1—Western Civilization in Modern Times	3	Ed. 102—Literature for Children	3
Bot. 3—The Living World	3	Bot. 4—The Living World	3
Soc. 1—General Sociology	3	Mus. 71—Introduction to Music for Elementary Teachers	2
Psych. 1—General Psychology	3	Ed. 163j—Teaching Arithmetic in the Elementary School	3
Speech 1—Fundamentals of Speech	1	Psych. 5—Educational Psychology	3
P. E. 1—Physical Education	1		

Sophomore Program

Ed. 126—The Purposes and Practices of Education	4	Ed. 163b—Teaching Reading and Language	3
Design 160c—Practical Design Workshop	3	Ed. 169f—Teaching Social Studies and Science in the Elementary School	3
Mus. 72—Music Fundamentals	2	Ed. 172—Student Teaching in Elementary Grades	5
P. E. 102—Personal and Community Health	3	Hist. 101 or 102—History of the United States	3
Geog. 150—Geography and Environment	3	P. E. 2—Physical Education	1
Ed. 103—Studies of Children	3		

SPECIAL EDUCATION

The following program includes all requirements, except those established by deficiencies in the high school pattern, for students who plan to qualify as teachers of special classes.

Freshman Program

First Semester	Hours	Second Semester	Hours
Ed. 3—Orientation in Childhood Education	3	Eng. 4—English Composition	3
Eng. 3—English Composition	3	Soc. 1—General Sociology	3
Hist. 1—Western Civilization in Modern Times	3	Bot. 4—Living World	3
Bot. 3—Living World	3	Psych. 3—Child Psychology (3) or Psych. 5—Educational Psychology (3)	3
Psych. 1—General Psychology	3	Mus. 71—Introduction to Music for Elementary Teachers	2
P. E. 1—Physical Education	1	Speech 1—Fundamentals of Speech	1
		P. E. 2—Physical Education	1

Sophomore Program

Govt. 1—American Government	3	Eng. 102—Sophomore English Literature (3) or Eng. 112—The Chief American Writers (3)	3
Mus. 72—Music Fundamentals	2	Ed. 166e—Teaching of Music	2
Design 3—Elementary Design for Teachers	2	Ed. 123—Curriculum for Special Classes	3
Ed. 122—Diagnosis and Remedial Instruction in Elementary Subjects	2	Ed. 102—Literature for Children	3
Zool. 107—Principles of Heredity	3	Ed. 160c—Practical Design Workshop for Elementary Teachers	3
H. Ec. 55—Home Economics for the Elementary School	2	Ind. A. 115—Elementary Industrial Arts	1
P. E. Physical education	1	P. E.—Physical education	1

Junior Program

Ed. 163j—Teaching Arithmetic in the Elementary School	3	Ed. 172—Student Teaching in Elementary Grades	5
Geog. 150—Geography and Environment	3	Ed. 110—Student Teaching Laboratory	4
P. E. 102—Personal and Community Health	3	Ed. 163b—Teaching Reading and Language	3
Ed. 221—Organization of Special Classes	3	Ed. 169f—Teaching Social Studies and Science in the Elementary School	3
Psych. 204—Psychology of Exceptional Children (2) or			
Psych. 216—Psychology of Individual Differences (2)	2		
Electives	2		

Senior Program

Ed. 250—The History of Education (3) or		Ed. 248—Student Personnel Services—Principles (3) or	
Ed. 254—Philosophy of Education (3)	3	Ed. 285—Educational Measurements (3)	3
Soc. 224—Child Welfare	3	Psych. 203—Mental Measurements	3
Hist. 101 or 102—History of United States	3	Soc. 222—Juvenile Delinquency	3
Psych. 210—Mental Hygiene	3	Govt. 105—Current Political and Social Problems	2
Electives	3	Electives	3

SECONDARY EDUCATION

The following are the *general requirements* for all students who plan to specialize in the teaching of the *academic subjects* in high school:

1. Education and Psychology	24-26
Psych. 1—General Psychology	3
Psych. 5—Educational Psychology	3
Ed. 130—Introduction to Secondary Education	4
Ed. 228—Principles of Teaching	3
Ed. 180—Observation and Participation in High School	3
Ed. 181—Student Teaching in High School	4
Ed. 270—Senior Conference in Secondary Education	2
Special Methods (See Major)	2-4
2. English	12
English 3-4—English Composition	6
English 101 or 102, and 111 or 112	6
3. Humanities (one year in one field, as required by University College)	
(a) Foreign language or	
(b) Philosophy 85, 87 or	
(c) Fine Arts 17, 18—Introduction to the Fine Arts	
4. Speech 1—Fundamentals of Speech	1
5. Physical Education	2-6
(See page 70.)	
6. Military Science	
(See page 71.)	
7. Science or Mathematics	6-10
(One year in one field)	
Biology, Botany, Zoology:	
Mathematics; Chemistry; Physics; Geology	
8. Social Studies	12
History and Government (at least 6 hrs.)	
Economics, Sociology, or Geography	

Specialization requirements for a major in academic high school subjects:

Agriculture

Select 27 semester hours in agriculture:

Agr. 1—General Agriculture	3	Agr. 124—General Dairying	3
Agr. 3—Forestry	3	Agr. 127—Types, Breeds, and Management of Poultry	3
Agr. 102—Vegetable Gardening	3	Agr. 135—Farm Management	3
Agr. 103—Fruit Growing	3	Agr. 143—Plant and Animal Breeding	3
Agr. 104—Small Fruits	3	Agr. 201-202—Farm Practices	6
Agr. 109—Landscape Gardening	3	Bot. 1, 2—General Botany	6
Agr. 115—Soils and Fertilizers	3	Chem. 1 or 3—General Chemistry	4
Agr. 116—Field Crops	3	Ed. 165a—Teaching of Agriculture	3
Agr. 117—Soil Conservation	3	Zool. 3-4—Principles of Zoology	6
Agr. 121—Types and Breeds of Farm Animals	3		

Biological Science—Botany

Bot. 1, 2—General Botany	6	Bot. 205—Plant Physiology	4
Bot. 107—Classification of Plants or		Bot. 108—Vegetation of North America and	
Bot. 117—Dendrology or		Bot. 109—Plant Geography of the World or	
Bot. 175—Taxonomy of the Non-Vascular Plants or		Bot. 203 or 204—Principles of Plant Ecology	4
Bot. 215—Taxonomy of Vascular Plants	3	Ed. 165b or 168g—Teaching of Botany or Teaching of General Science	2
Bot. 173, 174, 207, 208 (any two)	5	Zool. 3-4—Principles of Zoology	6

Physical Science—Chemistry

Chem. 1-2 or 3-4—General Chemistry	3	Phys. 5, 6—Introduction to Physics or	
Chem. 113—Organic Chemistry	4	Phys. 113, 114—General Physics	8
Chem. 117—Organic Chemistry Laboratory	2		
Chem.—Approved electives	14		
Ed. 165s—Teaching of Chemistry and Laboratory Practice	2		

Social Science—Economics

Ec. 15—Economic Geography or		Ec.—Approved electives	10
Geog. 101—Industrial and Commercial Geography	3	Ed. 169s—Teaching of Social Studies in Junior and Senior High Schools	
Ec. 101-102—Principles of Economics	6	Govt. 1, 2, 101 or 102	3
Ec. 230—Development of Economic Thought	3	Soc. 1—General Sociology	3

English

Eng. 3-4—English Composition	6	Ed. 164a, 164b,—Teaching of English in Senior High School	4
Eng. 102 and 111 or 112	6	Additional electives suggested from the fields of library administration for schools, dramatic arts, speech correction, or journalism.	
Eng.—Approved electives	16		
Elective in Library Science	2-3		

French

Fr. 1-2—Beginning French	5	Ed. 165f—Teaching of French or	
Fr. 101-102—Intermediate French	5	Ed. 165o—Teaching of French and Advanced French Grammar	2-3
Fr.—Approved electives	14	Two years of another foreign language*	12-16

Social Science—Geography

Geog. 3-4—Elements of Geography (6) or		Ed. 169h—Teaching of Social Studies in Junior and Senior High Schools	
Geog. 150—Geography and Environment (3)	6-3	Ec. 101—Principles of Economics	3
Geog. 101—Industrial and Commercial Geography	2	Soc. 1—General Sociology (3) and	
Geog. 102—Geography of Anglo-America	3	Soc. 2—Social Problems (3) or	
Geog. 105—Geography of Latin America	3	Soc. 5—Rural Sociology (2)	6-5
Geog. 131—Geography of Ohio	2	Govt. 1 or 2—American Government (3) and	
Geog. 132—Conservation of Natural Resources	3	Govt. 110—American Democracy (3)	6

German

Ger. 1-2—Beginning German	5	Ger.—Approved electives	10
Ger. 101-102—Intermediate German	8	Ed. 165g—Teaching of German	2
Ger. 109-110—German Grammar and Composition	4	Two years in another foreign language*	12-16

*For state requirements for teaching minor, see page 125.

Guidance and Counseling**

Ed. 103—Studies of Children	3	Psych. 131—Employee Selection and Placement	2
Ed. 248—Student Personnel Services—Principles	3	Psych. 210—Mental Hygiene	3
Ed. 249—Student Personnel Services—Practice	3	Ec. 101-102—Principles of Economics	6
Ed. 281—Educational Statistics	3	Soc. 1—General Sociology	3
Psych. 113—Psychology of Adolescence	2	Soc. 2—Social Problems	3
		Soc. 104—Community Organization	3

History and Government

Govt. 1, 2—American Government	6	Hist. 101, 102—History of the U.S.	6
Hist. 1, 2—Western Civilization in Modern Times	6	Hist. and Government—Approved electives	10
Ed. 169h—Teaching of Social Studies in Junior and Senior High Schools	2		

Italian

It. 1-2—Beginning Italian	8	It.—Approved electives	14
It. 101-102—Intermediate Italian	8	Two years of another foreign language*	12-16
Ed. 165f, Ed. 165o, Ed. 165r, or Ed. 165s—Teaching of French, Latin, German or Spanish	2-3		

Latin

For those entering with 4 years of Latin:

Lat. 101—Familiar Essays	4	Lat. 112—Writing Latin Prose	1
Lat. 102—Horace and Terence	4	Lat. 231—The Life of the Romans	2
Lat. 103—Pliny's Letters	3	Lat. and Gk.—Approved electives	6-8
Lat. 104—Livy and Ovid	3	Ed. 165r—Teaching of Latin	2
		Two years of another foreign language*	12-16

For those entering with 2 years of Latin:

Lat. 3—Latin Review and Reading (4), Lat. 4—Vergil (4), and 19 hours from the above.
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Library Science

(Minor for teacher-librarians only)

Ed. 191—History of Libraries and the Use of Library Resources	3	Ed. 194—History of Books and Printing (2)
Ed. 192—Classification and Cataloging of Books	3	Ed. 292—Advanced Library Administration (2-3)
Ed. 291—The School Library	2	Ed. 293—Administrative Problems in a School Library (2)
Select from the following: Ed. 193—Selection and use of Periodicals and Vertical File Materials (2)	7-8	Ed. 294—Selection and Purchase of Books for the School Library (2)

Outside courses offered by other departments, which are recommended for students pursuing a minor in Library Science, may be selected from the following: Ed. 102—Literature for Children; Ed. 141—Audio-Visual Teaching Aids; Design 3—Elementary Design for Teachers; Jour. 130—Book Reviewing. These must be in addition to the fifteen hours in Library Science.

Mathematics

Math. 5-6—Freshman Mathematics	10	Astron. 11 or 12—Elementary Astronomy or
Math. 105—College Geometry	3	Math. 34—Mathematics of Finance or
Math. 117—Differential Calculus	4	Math. 125—Elementary Statistics or
Math. 118—Integral Calculus	4	Math. 201—Theory of Equations
Ed. 163s—Teaching Arithmetic in the Upper Grades	3	2-3 Ed. 168m—Teaching of Mathematics in High School
		2-3 Ed. 281—Educational Statistics

*For state requirements for teaching minor, see page 135.

**Certification in Guidance Counseling is granted on the completion of an approved undergraduate program, and fifteen hours or more of graduate credit in approved courses, and three years of experience in teaching and personnel work. Students who elect this major will, therefore, need to complete requirements in two teaching minors, one of which will be social science. Undergraduates interested in this specialization may secure preparation by following the course program outlined above. After their bachelor's program, they may then take at least fifteen additional hours in approved graduate courses.

Physical Science—Physics

Phys. 5, 6—Introduction to Physics	8	Chem. 1-2 or 3-4—General Chemistry	8
Phys. 113, 114—General Physics	8	Ed. 168p—Teaching of Physics	2
Phys.—Approved electives	10	Math. 5-6—Freshman Mathematics	10

Psychology**

Psych. 1—General Psychology	3	Psych. 204—Psychology of Exceptional Children (2)	
Psych. 3—Child Psychology or		Psych. 205—Clinical Psychology (3)	
Psych. 113—Psychology of Adolescence	3	Psych. 209—Motivation and Emotions (3)	
Psych. 5—Educational Psychology	3	Psych. 217—Psychology of Personality (3)	
Psych. 203—Mental Measurements	3	Psych. 233—Learning and Memory (2)	
Psych. 210—Mental Hygiene	8	Psych. 237—Counseling and Psychotherapy (3)	
Psych. 220—Personnel and Vocational Counseling	2		
Psych. electives (to be chosen in consultation with a departmental adviser and selected from the following):	12		
Psych. 109—Experimental Psychology (3)			
Psych. 216—Psychology of Individual Differences (2)			

Science—Comprehensive Major

Bot. 1, 2—General Botany	6	Astron. 11 or 12—Elementary Astronomy	3
Chem. 1-2 or 3-4—General Chemistry	8	Phys. 5, 6—Introduction to Physics	8
Geol. 1-2—Elementary Geology	6	Zool. 3-4—Principles of Zoology	6
		Elective in science	3
Ed. 168b, 168g, 168p, or 168z—The Teaching of Botany, General Science, Physics, Chemistry and Laboratory Practice, or Zoology			2—4

Social Studies—Comprehensive Major

Ec. 101-102—Principles of Economics	6	Hist. 101, 102—History of the United States	6
Geog. 150—Geography and Environment, and		Soc. 1—General Sociology	3
Geog. 102, 105, 108, 112 or 132	6	Soc. 2—Social Problems	3
Govt. 1, 2—American Government	6	Electives in social studies	4
Hist. 1, 2—Western Civilization in Modern Times	6	Ed. 169h—Teaching of Social Studies in Junior and Senior High Schools	2

Social Science—Sociology

Soc. 1—General Sociology	3	Ed. 169h—Teaching of Social Studies in Junior and Senior High Schools	2
Soc. 2—Social Problems	3	Geog. 150—Geography and Environment or	
Soc. 5—Rural Sociology or		Geog. 101—Industrial and Commercial Geography	3
Soc. 218—Urban Sociology	2-3	Govt. 1, 2, 101 or 102	3
Soc. 104—Community Organization	3		
Soc. 208—Marriage and the Family	3		
Soc. 222—Juvenile Delinquency	3		
Ec. 101-102—Principles of Economics	6		

Spanish

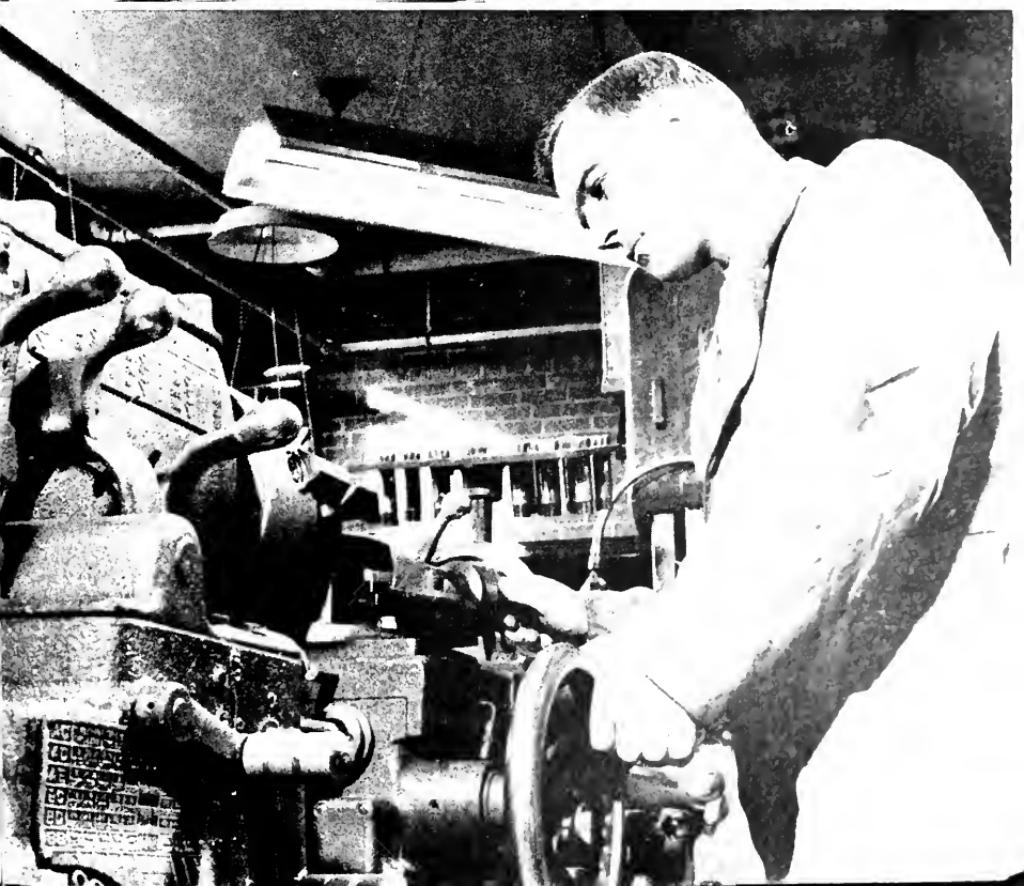
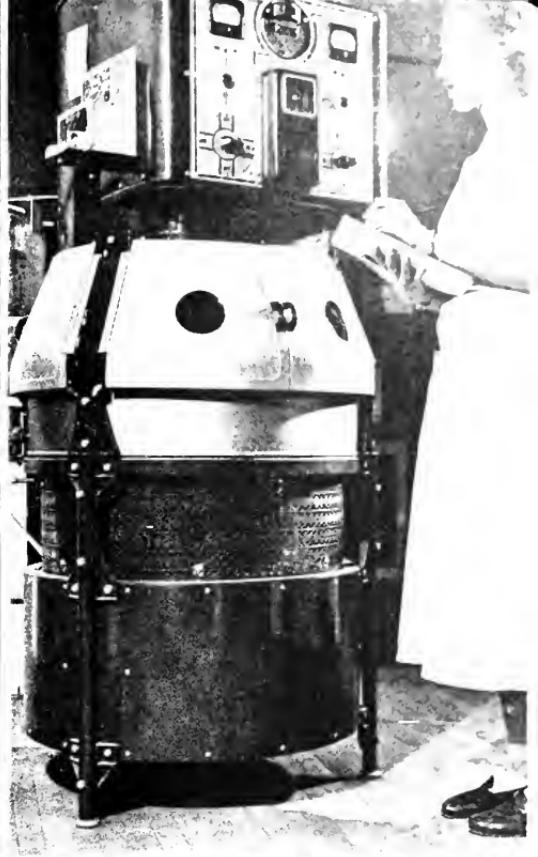
Sp. 1-2—Beginning Spanish	8	Ed. 168s—Teaching of Spanish	2
Sp. 101-102—Intermediate Spanish	8	Two years of another foreign language*	12-16
Sp.—Approved electives	14		

Biological Science—Zoology

Zool. 3-4—Principles of Zoology	6	Zool.—Electives from the following: (3)	
Zool. 119—General Entomology	4	Zool. 107—Principles of Heredity (4)	
Zool. 135—Elements of Physiology (4) or 136—Elements of Physiology (4)	4	Zool. 113—Biology of Vertebrates (4)	
Ed. 168z—Teaching of Biology	2	Zool. 116—Animal Communities (4)	
Bot. 1, 2—General Botany	6	Zool. 118—Ornithology (3)	
		Zool. 121—Elements of Anatomy (3)	
		Zool. 141—Elementary Bacteriology (4)	

**Certification as School Psychologist is granted upon completion of an approved undergraduate program, such as the above, including completion of requirements for a teaching certificate, and an approved graduate program in psychology. Students who elect this major will, therefore, need to complete requirements in two teaching minors, one of which will be social science.

*For state requirements for teaching minor, see page 135.





TEACHING SPECIAL SUBJECTS

The following are the *general requirements* for students who plan to specialize in the teaching of the *special subjects*:

1. Education and Psychology** -----	22
Psych. 1—General Psychology -----	3
Psych. 5—Educational Psychology -----	3
Ed. 125—The Purposes and Practices of Education -----	4
Ed. 228—Principles of Teaching -----	3
Ed. 182—Observation and Participation -----	3
Ed. 183 and 184, or 185—Student Teaching -----	4
Ed. 270—Senior Conference in Secondary Education -----	2
Special Methods (See Major)	
2. English -----	12
English 3-4—English Composition -----	6
English 101 or 102, and 111 or 112 -----	6
3. Humanities (one year in one field, as required by University College)	
(a) Foreign language or	
(b) Philosophy 85, 87 or	
(c) Fine Arts 17, 18—Introduction to the Fine Arts	
4. Speech 1—Fundamentals of Speech -----	1
5. Physical Education -----	2-6
(See page 70.)	
6. Military Science	
(See page 71.)	
7. Science or Mathematics -----	6-10
(One year in one field)	
Biology, Botany, Zoology;	
Mathematics ; Chemistry ; Physics ; Geology	
8. Social Studies -----	12
History and Government (at least 6 hrs.)	
Economics, Sociology, or Geography	

Specialization requirements for a major in special subjects:

Commerce—Bookkeeping-Social Business

Acct. 75-76—Elementary Accounting --- 6	Ec. 101-102—Principles of Economics -- 6
Acct. 125-126—Intermediate Accounting- 6	Fin. 101—Money and Credit ----- 3
Acct. 175—Cost Accounting (3) or	Fin. 121—Business Finance ----- 3
Acct. 205—Advanced Accounting (3) -- 3	Sec. St. 180—Operation of Office
Bus. L. 155-156—Business Law ----- 6	Machinery ----- 2
Mgt. 201—Production Management (3) or	Com.—Approved electives ----- 6
Mgt. 212—Administration of Per- sonnel (3) ----- 3	Ed. 161b—Teaching of Bookkeeping ---- 2
Ec. 15—Economic Geography ----- 3	

Commerce—Business Education

Acct. 75-76—Elementary Accounting --- 6	Sec. St. 31-32—Shorthand ----- 6
Acct. 125—Intermediate Accounting --- 3	Sec. St. 120—Business Letter Writing -- 3
Bus. L. 155—Business Law ----- 3	Sec. St. 151—Beginning Dictation and
Mgt. 201—Production Management(3) or	Transcription ----- 5
Mgt. 212—Administration of Per- sonnel (3) ----- 3	Sec. St. 171—Secretarial Theory ----- 3
Ec. 15—Economic Geography ----- 3	Sec. St. 175—Secretarial Practice ----- 4
Fin. 101—Money and Credit ----- 3	Ed. 161b, 161s, 161t—Teaching of
Sec. St. 15-16—Typewriting ----- 4	Bookkeeping, Shorthand, or
	Typewriting ----- 2
	Com.—Approved electives ----- 3

**Special methods in the subject to be taught are not included in this total.

Commerce—Salesmanship-Merchandising

Acct. 75-76—Elementary Accounting	6	Com.—Electives	9
Advt. 155—Advertising Principles	3	Art. Hist. 125—The Arts in Everyday	
Advt. 186—Retail Advertising	3	Life or	
Ec. 3—Contemporary Economic Society	3	Design 147—Advertising Design	2
Ec. 101-102—Principles of Economics	6	Psych. 6—Psychology of Advertising	
Mkt. 155—Marketing Principles	3	and Selling	3
Mkt. 171—Principles of Personal Selling	2	Ed. 161b—Teaching of Bookkeeping	2
Mkt. 201—Retail Selling Policies	3		

Commerce—Stenography-Typing

Bus. L. 155—Business Law	3	Sec. St. 171, 172—Secretarial Theory	4
Ec. 15—Economic Geography	3	Sec. St. 175—Secretarial Practice	4
Fin. 101—Money and Credit	3	Sec. St. 185—Office Management	3
Sec. St. 15-16—Typewriting	4	Com.—Approved electives (Accounting	
Sec. St. 31-32—Shorthand	6	preferred)	6
Sec. St. 120—Business Letter Writing	3	Ed. 161s—Teaching of Shorthand	2
Sec. St. 151—Beginning Dictation and		Ed. 161t—Teaching of Typewriting	2
Transcription	5		

Dramatic Art and Speech

Speech 2—Voice and Articulation	2	Radio 5—Radio Speech	2
Speech 3—Public Speaking	2	Dram. A. 21—Elements of Stage Scenery	3
Speech 25—Principles of Argumentation	2	Dram. A. 23—Elements of Stage	
Speech 34—Oral Interpretation of		Lighting	3
Literature	3	Dram. A. 101—Movement and Panto-	
Speech 112—Advanced Public Speaking	3	mime	2
Speech 117—Debate Practice	2	Dram. A. 107-108—Costuming and	
Speech 195—Principles of Speech		Make-Up	4
Correction	3	Dram. A. 199—Principles of Acting	3
Speech 220—Advanced Clinical Methods	3	Dram. A. 250—Play Direction	3
		Ed. 162h—Teaching of High School	
		Dramatics and Speech	3

Home Economics

H. Ec. 1, 2—Foods, Nutrition and		H. Ec. 251—Home Management	2
Meal Planning	6	H. Ec. 253—Home Management	
H. Ec. 3, 4—Clothing and Textiles	6	H. Ec. Laboratory	3
H. Ec. 5—Growth and Development of		H. Ec.—Approved electives*	12
the Child	3	Chem. 1-2 or 3-4—General Chemistry	
H. Ec. 6—Family Living	3	(8) or	
H. Ec. 7—The Home and its Furni-		Zool. 3-4—Principles of Zoology (6)	
shings	2	or	
H. Ec. 8—Selection & Purchase of		Bot. 3-4—The Living World (6)	6-8
Consumers' Goods	2	Zool. 141—Elementary Bacteriology	4
H. Ec. 72—Home Nursing and Family		Ed. 163h—Teaching of Home Economics	3
Health	2	Design 91—Design and Composition	2
H. Ec. 227—Quantity Cookery	3	Design 102—Applied Design	3

Industrial Arts—Comprehensive Major

Ind. A. 1—Woodworking I	3	Ind. A. 141—Printing	3
Ind. A. 2—Woodworking II	3	Ind. A. 209—Practicum in General Shop	2
Ind. A. 7—Sheet Metal	3	Ind. A. 212—Equipment and Organ-	
Ind. A. 11—Duplicating	3	ization of Industrial Arts	
Ind. A. 103—Practical Electricity	3	Laboratories	2
Ind. A. 105—Materials and Finishes	3	Ind. A. 226—History of Industrial and	
Ind. A. 116—Constructive Design	2	Vocational Arts	3
Ind. A. 121—Pattern Making, Forge		Electives in Industrial Arts	6
and Foundry	2	E. D. 1—Engineering Drawing	2
Ind. A. 124—Machine Shop	3	E. D. 15—Industrial Arts Drawing	3
Ind. A. 131—Introduction to Ceramics	2	Ed. 160m—Teaching of Industrial Arts	3
		Chem. 1-2 or 3-4; Phys. 5, 6; or Math.	
		5-6—One year in one subject	8-10

Industrial Arts—Special

Ind. A. 1—Woodworking I	3	Ind. A. 212—Equipment and Organ-	
Ind. A. 7—Sheet Metal	3	ization of Industrial Arts	
Ind. A. 11—Duplicating	3	Laboratories	2
Ind. A. 103—Practical Electricity	3	Ind. A. 226—History of Industrial and	
Ind. A. 116—Constructive Design	2	Vocational Arts	3
Ind. A. 121—Patternmaking, Forge		Ind. A.—Approved electives in the	
and Foundry	2	Selected Field	16
Ind. A. 124—Machine Shop	3	E. D. 1—Engineering Drawing	2
Ind. A. 131—Introduction to Ceramics	2	E. D. 15—Industrial Arts Drawing	3
		Ed. 160m—Teaching of Industrial Arts	3
		Chem. 1-2 or 3-4; Physics 5-6; or Math.	
		5-6—One year in one subject	8-10

By taking the core courses listed and appropriate electives, a specialization in Drawing, Graphic Arts, Metalworking, or Woodworking may be developed.

*Twelve hours of advanced courses in Home Economics with a minimum of three hours in each of the following fields: (1) Foods and Nutrition, (2) Clothing and Textiles, (3) Child Development and Family Living and, (4) Home Furnishings, Equipment and Management.

Music—General Supervision

Applied Music (16 hrs.):	
Mus.—Voice (must include completion of Voice 14) -----	4
Mus.—Piano (must include completion of Piano 6) -----	4
Mus.—Additional study in selected fields of applied music -----	8
Mus.—Chorus -----	4
Mus.—Participation elective (Chorus, Band, Orchestra) -----	2
Mus. 3-4—Theory -----	6
Mus. 103-104—Dictation and Sight Singing -----	4
Mus. 105-106—Harmony -----	6
F. A. 123-124—History of Music -----	6
Mus. 133—Instrumentation -----	3

Music—Instrumental Supervision

Applied Music (16 hrs.):	
Mus.—Major Instrument (must include completion of course 18) -----	8
Mus.—Minor Instrument (If minor instrument is wind, 3 hrs. must be in strings; if major instrument is stringed, 3 hrs. must be in winds) -----	4
Mus.—Piano (must include completion of Piano 4) -----	2-4
Mus.—Band -----	4
Mus.—Orchestra -----	4
Mus.—Chorus -----	1
Mus. 3-4—Theory -----	6
Mus. 103-104—Dictation and Sight Singing -----	4
Mus. 105-106—Harmony -----	6

Painting and Allied Arts

Design 11-12—Basic Design -----	4
Paint. 28—Figure Drawing -----	2
Paint. 45-46—Methods in Representation -----	4
Design 113—Lettering -----	3
Design 120—Textile Design -----	3
Sculpt. 115—Ceramics -----	3
Paint. 117—Form and Composition -----	3
Paint. 118—Water Color -----	3
Photog. 77—Elementary Photography -----	2

F. A. 121-122—History of Painting and Sculpture -----

Design 123—Jewelry -----	2
Design 137—Costume Design -----	2
Design 171—Interior Decoration -----	3
Paint. 209—Prints -----	3
Design 140—Design Applied to Materials -----	2
E. D. 1—Engineering Drawing or	
Arch. 55—Fundamentals of Architecture -----	2-3
Ed. 160h—Teaching of Arts -----	3
Elective—5 hours from:	
Paint. 28, 75, 76, 211 or	
Design 207	

Physical Education**and Athletics—Men**

P. E. 6—Physical Activities -----	2
P. E. 7—Physical Activities -----	2
P. E. 102—Personal and Community Health -----	3
P. E. 119—Physical Activities -----	2
P. E. 120—Physical Activities -----	2
P. E. 127—First Aid -----	2
P. E. 133—Theory and Practice of Adapted Activities -----	2
P. E. 150—Recreation -----	3
P. E. 167e—Athletic Coaching -----	3

P. E. 167f—Athletic Coaching -----

P. E. 204—History and Principles of Physical Education and Athletics -----	3
P. E. 206—Organization and Administration of Physical Education and Athletics -----	3
Zool. 3-4—Principles of Zoology -----	6
Zool. 123—Anatomy and Kinesiology -----	4
Zool. 136—Elements of Physiology -----	4
Ed. 103—Studies of Children -----	3
Ed. 167h—Teaching of Health -----	3

Physical Education and Athletics—Women

P. E. 1—Sports -----	1
P. E. 6—Elementary Tap Dancing -----	1
P. E. 7—Modern Dance -----	1
P. E. 4—Intermediate Swimming (1) or	
P. E. 8—Modern Dance (1) -----	1
P. E. 102—Personal and Community Health -----	3
P. E. 121-122—Physical Activities -----	4
P. E. 127—First Aid -----	2
P. E. 131—Mass Games -----	1
P. E. 133—Theory and Practice of Adapted Activities -----	2
P. E. 150—Recreation -----	3
P. E. 204—History and Principles of Physical Education and Athletics -----	3

P. E. 206—Organization and Adminis-tration of Physical Educa-tion and Athletics -----

Zool. 3-4—Principles of Zoology -----	6
Zool. 123—Anatomy and Kinesiology -----	4
Zool. 136—Elements of Physiology -----	4
Ed. 103—Studies of Children -----	3
Ed. 167a—Coaching Methods -----	2
Ed. 167b—Coaching Methods -----	2
Ed. 167h—Teaching of Health -----	3
Ed. 167n, 167o—Teaching of Rhythmic Activities -----	2

Speech and Hearing Therapy

The following program includes all requirements, except those established by deficiencies in the high school pattern, for students preparing to be teachers of speech and hearing therapy. This program meets the requirements in the State of Ohio for the special certificate in this field.

Education and Psychology:	Hours	Speech:	Hours
Ed. 125—The Purposes and Practices of Education	4	Speech 2—Voice and Articulation	2
Ed. 211—The Child and the Curriculum	3	Speech 3—Public Speaking	2
Ed. 158—Student Teaching in Speech Correction	3	Speech 25—Principles of Argumentation	2
Ed. 162s—Speech and Hearing Therapy in the Public Schools	2	Speech 34—Oral Interpretation of Literature	3
Education electives from the following: 2-3		Speech 195—Principles of Speech Correction	3
Ed. 103—Studies of Children (3)		Speech 207—Clinical Methods (Observation and Participation)	3
Ed. 248—Student Personnel Services—Principles (3)		Speech 210—Speech Pathology	3
Ed. 212—Senior Conference in Elementary Education (2)		Speech 212—Phonetics	3
Psych. 1—General Psychology	3	Speech 219—Audiometry and Speech and Hearing Problems	3
Psych. 3—Child Psychology	3	Speech 220—Advanced Clinical Methods	3
Psych. 5—Educational Psychology	3	Speech 223—Lip Reading	3
Psych. 203—Mental Measurements	3	Radio 5—Radio Speech	2
Psych. 204—Psychology of Exceptional Children	2	Speech or Dramatic Art electives	2
Psych. 210—Mental Hygiene	3	Additional general requirements:	
Psychology electives from the following:	5	Eng. 3-4, English Composition	6
Psych. 113—Psychology of Adolescence (2)		Eng. 101, 102, 111, or 112	3
Psych. 216—Psychology of Individual Differences (2)		Physical Education	2-6
Psych. 237—Counseling and Psychotherapy (3)		Science or Mathematics (Botany, Zoology, Physics, Chemistry, or Mathematics	6-10
		Social Studies (History, Government, Sociology, Economics, Geography)	9
		Electives to bring total to 124 semester hours required for graduation.	

COMBINED ELEMENTARY-SECONDARY EDUCATION

The following program includes all requirements, except those established by deficiencies in the high school pattern, for students preparing to teach both in elementary and in high schools.

Freshman Program

	Hours		Hours
Eng. 3—English Composition	3	Eng. 4—English Composition	3
Hist. 1—Western Civilization in Modern Times	3	Hist. 2—Western Civilization in Modern Times	3
Bot. 3—The Living World	3	Bot. 4—The Living World	3
Phys. 1—The Physical World	3	Psych. 1—General Psychology	3
Soc. 1—General Sociology	3	Mus. 71—Introduction to Music for Elementary Teachers	2
Physical Education	1	Speech 1—Fundamentals of Speech	1
		Physical Education	1

Sophomore Program

Eng. 102, 111, or 112	3	Eng. 102, 111, or 112	3
Psych. 5—Educational Psychology	3	Ed. 125—The Purposes and Practices of Education	4
Ed. 103—Studies of Children	3	Design 3—Elementary Design for Teachers	2
Mus. 72—Music Fundamentals	2	Ed. 120—Literature for Children	3
Geog. 150—Geography and Environment	3	Hist. 101—History of the United States	3
H. Ec. 55—Home Economics for the Elementary School (2) or Ind. A. 115—Elementary Industrial Arts (2)	2	Physical Education	1
Physical Education	1		

Junior Program

Design 160c—Practical Design Workshop for Elementary Teachers	3	Ed. 172—Student Teaching in Elementary Grades	5
P. E. 102—Personal and Community Health	3	Ed. 163j—Teaching Arithmetic in the Elementary School	3
Mus. 166e—Teaching of Music in Elementary Grades	2	Ed. 169f—Teaching Social Studies and Science in the Elementary School	3
Electives—High School Teaching field	6	Ed. 163b—Teaching Reading and Language	3
Special methods in High School teaching field	2-3		

Senior Program

Ed. 181—Student Teaching in High School	4	Ed. 212—Senior Conference in Elementary Education	2
Ed. 228—Principles of Teaching	3	Govt. 105—Current Political and Social Problems	3
Electives—High School Teaching field	9	Electives	10

STUDENT TEACHING AND OBSERVATION AND PARTICIPATION

Successful student teaching represents the culmination of the program of professional preparation; it is a requirement for the degree, Bachelor of Science in Education, and for a three-year diploma. No candidate will be considered for the degree, or for recommendation for a teaching certificate, who has not completed at *Ohio University* at least five hours of observation, participation, and student teaching, of which at least three hours are in student teaching. The degree of Bachelor of Science in Education will be granted only to candidates who have given, within the five years immediately preceding, satisfactory evidence of a high degree of teaching skill, and a knowledge of modern methods and ability to employ them in the classroom.

Student teaching reservations should be made before the opening of the semester in which the work is to be completed. Reservation blanks are secured from Dr. W. A. Yauch, in elementary education, and Mr. Carl Roberts, in secondary education.

ELEMENTARY TRAINING SCHOOLS. Student teaching is done in the kindergarten and the elementary grades of the University Elementary School maintained by *Ohio University*. The enrollment is not selective and the school is a typical school. The equipment compares favorably with that in the best city schools. A unit of the University Elementary School is equipped for special work with slow-learning and mentally-handicapped children. Facilities for elementary teaching are also available in The Plains Elementary School at The Plains, a community four miles from Athens, and in the Mechanicsburg School, two miles from Athens. In these elementary schools a supervising critic is in charge of each room which is used for observation and student teaching.

JUNIOR HIGH TRAINING SCHOOLS. Students who are preparing for teaching in the upper grades or junior high school do their student teaching in the Athens Junior High School, The Plains High School, or the Mechanicsburg Junior High School.

SENIOR HIGH TRAINING SCHOOLS. Students who are preparing for high school teaching do their student teaching in the Athens High School or in The Plains High School. The arrangement with the Athens High School and The Plains High School provide unusual facilities for all phases of high school teaching.

Under normal conditions, transportation to the Mechanicsburg and The Plains schools is furnished by the University without cost to the students.

PREREQUISITES FOR ALL TYPES OF STUDENT TEACHING

1. A student must have demonstrated proficiency in English usage, both written and oral. The requirements in written English may be satisfied by attainment of a C in English 3, and a C average in English 3-4.

or equivalent, and by passing the Sophomore English Proficiency Test. Special clinical attention is available to students who wish to remedy defects.

2. A student must have demonstrated proficiency in speech and freedom from speech defects. This requirement is met through the satisfactory completion of Speech 1, and through a special examination. Special clinical attention is available to students who require it.

3. Students are required to meet the standard in the psychological test for entrance to teacher preparation. This requirement is based on Sec. 7659 of the Ohio statutes and the regulations of the State Department of Education. Exceptions can be made to this standard only in case of high scholastic record and unusually favorable personality traits.

4. A student must have a scholastic average of at least 2.0 in all hours attempted, and in all hours attempted in education. The specific courses prerequisite to secondary school student teaching include Psychology 1 and 5, Education 125 or 130, 228 and 180. *These normally require a sequence of at least three semesters before student teaching.* Admission to student teaching in the elementary field requires completion of at least 5 semesters of the appropriate program (for cadets, 3 semesters). Transfer students or others whose programs are irregular are required to have the substantial equivalent of the professional and academic course requirements in the appropriate program for the degree of Bachelor of Science in Education.

TEACHING CERTIFICATES

A student who plans to teach in Ohio makes application for a teaching certificate in the office of the Ohio University Registrar at the time of application for graduation. The teaching certificate is issued by the State Department of Education upon the recommendation of the Dean of the College of Education, and qualifies the student to teach the subjects indicated on the certificate.

Students who are not planning to teach in Ohio should inform themselves concerning the requirement specified by the department of education of the state in which they expect to teach.

A student who plans to teach in the elementary grades registers in the College of Education when he has completed the requirements of the University College. The curricula offered by the College of Education include the requirements of the State Department of Education and qualify a student to obtain a provisional certificate to teach in the elementary grades or the kindergarten-primary grades, depending upon the student's preparation.

Students who plan to teach high school or special subjects ordinarily enroll in the College of Education. The curricula of the College of Education include the requirements of the State Department of Education and qualify the student to obtain a provisional certificate to teach the subjects indicated on the certificate. However, under the certification laws, a student enrolled in another degree college may meet the requirements to teach academic and special subjects by completing the

certification requirements and the requirements for the degree. Students who plan to teach in high school should prepare to teach at least three subjects.

A student who plans to qualify for both the high school and the elementary certificates will register in the College of Education when he has completed the requirements of the University College. This program, offering the broadest preparation for effective educational service, is appropriate for those who look forward to positions of leadership in education.

The requirements in education (professional credits) and in the teaching fields which qualify a student for teaching in high school as indicated below are the legal minimum established by the State Department of Education.

Minimum professional credits for a provisional high school or a special certificate.

Subject	Sem. Hrs.	Subject	Sem. Hrs.
Educational Psychology	2-3	Electives in:	
(Prereq., General Psychology)		History of Education	
Principles of Teaching (or Education)	2-3	Tests and Measurements	
School Administration, Organization		Educational Sociology	
or Management	2-3	Secondary Education	
Methods of Teaching	2-3	Introduction to Teaching	
(see subject requirement)		Philosophy of Education	
Student Teaching (in grades 7-12)*	3-5	Minimum Total	17

Minimum requirements for a provisional high school certificate in the various teaching fields (academic and special subjects):

Subject	Sem. Hrs.	Subject	Sem. Hrs.
Art	24	General Science	15
1. Drawing	5	1. Physics	3
2. Design, painting, sculpture	9	2. Chemistry	3
3. Appreciation or history	7	3. Biology	3
4. Methods, including teaching materials, sources, organization, observation	3	4. Other science electives or excess in above	6
Biological Science (prerequisite—1 h.s. unit)	15	(General science will also be added to a certificate on the basis of an integrated base course and pertinent electives, totaling 15 sem. hrs.)	
1. Zoology	3	History (prerequisite—2 h.s. units)	15
2. Botany	3	1. World history	3
(or general biology—6)		2. American history	3
3. Pertinent electives	9	3. Political science	3
Bookkeeping	9	4. Pertinent electives or excess in above	6
(bookkeeping, accounting, methods)		Home Economics	20
Bookkeeping—Social Business	20	1. Foods and nutrition	6
1. Bookkeeping and Accounting	9	2. Textiles and clothing	6
2. Business law, economic geography, economics, business organization, excess in above or pertinent electives	11	3. Home management, child development, housing, household equipment, home furnishing, family relationships, consumer education, home hygiene or home nursing	6
Earth Science (prerequisite—1 h.s. unit)	15	4. Methods	2
1. Geology	3	Industrial Arts	24
2. Geography	3	Distributed over the following:	
3. Pertinent electives or excess in above	9	1. Graphic arts — drawing, planning, printing, photography, duplicating	
English (prerequisite—3 h.s. units)	15	2. Woods—furniture construction, carpentry, wood finishing	
1. English Composition	6		
2. English and American poetry	3		
3. English and American prose	3		
4. Pertinent electives or excess in above	3		

*A high school certificate requires student teaching in the secondary grades, 7-12; special certificate, student teaching in the elementary and the secondary grades.

3. Metals—sheet metal, art metal, foundry, machine metal work	4. Applied electricity — communication, transportation, power	5. Ceramics—clay and concrete	6. Methods and organization	4. Methods and materials in teaching health, including evaluation and selection of health material	5. Health and hygiene, including personal health and living, community health, mental hygiene, social hygiene, foods and nutrition, sanitation, disease control, health counseling, athletic injuries and first aid	6. Human anatomy and physiology
Languages (prerequisite—2 h.s. units) 15 (15 semester hours in the language in which certification is desired)						
Library Science 15 Distributed over the following:						
1. Bibliographic						
2. Materials						
3. Technical						
4. Management and functions						
Mathematics (prerequisite—2 h.s. units) 15						
1. College algebra 3						
2. College geometry 3						
3. Trigonometry 3						
4. Pertinent electives or excess in above 6						
Music—Instrumental 24						
1. Harmony (written, oral, keyboard), sight singing, ear training 10						
2. History and appreciation 4						
3. Applied music (orchestral instruments) 4						
4. Music education, etc. 4						
5. Membership in band or orchestra						
Music—Vocal 24						
1. Harmony (written, oral, keyboard), sight singing, ear training 10						
2. History and appreciation 4						
3. Applied music (piano or singing, or both) 4						
4. Music education, including methods for elementary and high school, observation, participation, conducting 6						
5. Membership in some choral group						
Physical Education and Health 24						
1. Principles, organization and administration of physical education, including athletics and recreation 3						
2. Activities, skills and methods of teaching rhythms, games of low organization, stunts, tumbling, apparatus, recreational group activities, and others 4						
3. Activities, skills and methods of teaching athletic sports, including football, basketball, baseball, track, tennis, golf, swimming, soccer, speedball, volleyball, and others commonly used in secondary and college programs 4						
Speech 15 Distributed over the following:						
1. Speech, fundamentals, interpretative reading, speech correction and voice, dramatic production, public address and discussion 10						
2. Excess in above or pertinent electives 5						
Stenography—Typing 20						
1. Shorthand 9						
2. Typing 3						
3. Methods 2						
4. Office practice, business English, excess in above, or pertinent electives 6						
Typing (typing and methods) 5						

Any of the above subjects appearing on a certificate issued by the State of Ohio Department of Education qualifies the applicant to teach in the secondary grades the specified field or any subject listed as a required course in the field.

Teaching subjects are not designated as majors and minors. The certificate indicates the number of hours preparation in each subject listed thereon.

Minimum requirements for a provisional special certificate in the various special teaching fields:

Subject	Sem. Hrs.
Art	60
1. Drawing	15
2. Design, painting, sculpture	25
3. Appreciation and history	10
4. Methods, teaching materials, sources, organization, observation and student teaching	10
Business Education	45
Minimum requirements:	
Typing	3
Shorthand	6

Subject	Sem. Hrs.
Bookkeeping and accounting	6
Methods	2
Distribute remainder over the following:	
1. Stenography—Typing	
Shorthand, typing, office practice, business English and correspondence, methods in shorthand and typing	
2. Bookkeeping—Social Business	
Business law, accounting, economic geography, economics, business organization	

3. Salesmanship—Merchandising Marketing principles, salesmanship, advertising, retailing, merchandising	Physical Education and Health -----46
Home Economics -----35	1. Principles, organization, and administration of physical education, including athletics and recreation; and principles, organization, and administration of school health education, including school and community relationships ----- 6
1. Foods and Nutrition -----8-15 (includes normal nutrition, meal planning, selection, preparation, and serving)	2. Activities, skills and methods of teaching rhythms, games of low organization, stunts, tumbling, apparatus, recreational group activities, and elementary school activities -----10
2. Clothing -----8-15 (includes selection, construction, textiles, art principles)	3. Activities, skills and methods of teaching athletic sports, including football, basketball, baseball, track, tennis, golf, swimming, soccer, speedball, volleyball, and others commonly used in secondary and college programs ----- 6
3. General -----12-19 (includes child development, family relationships or eugenics, housing, home furnishings, equipment, home management, home hygiene or home nursing, and consumer education)	4. Methods and materials in teaching health, including evaluation and selection of health material ----- 3
Industrial Arts -----45 Distributed over the following:	5. Health and hygiene, including personal health and living, community health, mental hygiene, social hygiene, foods and nutrition, sanitation, disease control, health counseling, athletic injuries and first aid ----- 8
1. Graphic arts — drawing, planning, printing, photography, duplicating	6. Human anatomy and physiology ----- 6
2. Woods—furniture construction, carpentry, wood finishing	7. Individual or adapted physical education, including corrective, restricted and therapeutic activities, their teaching and administration ----- 2
3. Metals—sheet metal, art metal, foundry, machine metal work	8. Electives pertinent to the field such as: child growth and development, pre-adolescent, adolescent, and adult psychology, camping, and outdoor education, safety education, driver education and training, and others ----- 5
4. Applied electricity — communication, transportation, and power	
5. Ceramics—clay and concrete	
6. Methods and organization.	
Music—Instrumental -----53	
1. Methods, materials, observation -----4	
2. Student teaching -----3 (elementary and secondary levels)	
3. Conducting -----2	
4. Instrumental classes -----4	
5. Theory (ear training, sight singing, dictation, harmony, etc.) -----16	
6. Applied music -----16	
7. History, appreciation, literature -----4	
8. Ensemble -----4	
Music—Vocal -----53	
1. Methods, materials, observation -----6	
2. Student teaching -----3 (elementary and secondary levels)	
3. Conducting -----2	
4. Class voice -----2	
5. Theory (ear training, sight singing, dictation, harmony, etc.) -----16	
6. Applied music -----16	
7. History, appreciation, literature -----4	
8. Ensemble -----4	
Speech -----40	
	1. Speech fundamentals, interpretative reading, speech correction and voice, dramatic production, public address and discussion (including debates, extempore speaking, panel discussion, the oration, persuasive speech, and various original speech forms), special methods in teaching speech -----34
	2. Other speech courses or excess in above ----- 6

Minimum requirements for a provisional vocational certificate:

Courses leading to a degree offered by Ohio University in home economics outlined by the College of Education or by the College of Applied Science qualify a student for a provisional vocational certificate in the subject.

The information given above is found on the application form issued by the State Department of Education and in the manual, "Laws and Regulations Governing the Certification of Teachers in Ohio," January 1, 1948. Questions concerning certification should be referred to the Dean of the College of Education, Ohio University, Athens, Ohio.



THE COLLEGE OF FINE ARTS

EARL C. SEIGFRED

DEAN

THE SCHOOL OF DRAMATIC ART AND SPEECH

CLAUDE E. KANTNER, DIRECTOR

Dramatic Art

Radio

Speech

Speech Correction

THE SCHOOL OF MUSIC

THOMAS A. GORTON, DIRECTOR

Applied Music

Music History and Literature

Theory and Composition

Music Education

THE SCHOOL OF PAINTING AND ALLIED ARTS

L. C. MITCHELL, DIRECTOR

Architecture

Art History

Design

Painting and Drawing

Photography

Sculpture and Ceramics

THE COLLEGE OF FINE ARTS

The College of Fine Arts comprises the School of Dramatic Art and Speech, the School of Music, and the School of Painting and Allied Arts. Within these schools, opportunity is offered for a broad, cultural education in the fine arts and for special training in the following departments: Dramatic Production, Radio, Speech, Speech Correction, Applied Music, Music History and Literature, Music Theory and Composition, Music Education, Architecture, Design, Painting and Drawing, Photography, Art History and Appreciation, Sculpture and Ceramics, and Art Education.

Candidates for the degree in the College of Fine Arts complete the general graduation requirements, which include a minimum of 124 semester hours with a point-hour ratio of 2.0 in all hours attempted. These requirements include the program of the University College.

A candidate for the degree of Bachelor of Fine Arts who is preparing to teach should plan his program to fulfill the minimum requirements listed in the section on "Teaching Certificates" (see pages 135-137) in this catalog.

BACHELOR OF FINE ARTS

The Bachelor of Fine Arts degree is offered to fulfill three functions: to provide the student with specialized training in one of the fine arts; to offer an opportunity to gain a cultural background through a study of the relationship of all of the arts; to prepare the student, as far as possible, to become a responsible member of society. To these ends, the program has been kept flexible to meet individual needs. Every effort is made to provide educational and vocational counseling.

Students working toward the Bachelor of Fine Arts degree are required to complete a major in one of the schools of the College of Fine Arts and a minor of 24 hours in general courses in the fine arts. Specific programs in the various major fields and in the minor are listed below.

Although major programs often require a large proportion of work in courses of a practical nature, it should be pointed out that minor studies are confined to the areas of appreciation and history.

All candidates for the Bachelor of Fine Arts degree must complete F. A. 17-18—Introduction to the Fine Arts and a minimum of 6 hours of English beyond the University College requirement.

MAJORS IN THE SCHOOL OF DRAMATIC ART AND SPEECH. The curriculum of the School of Dramatic Art and Speech provides a comprehensive major for those who wish a general background and also permits more specialized majors in theatre, public address, radio and speech correction for those who wish to concentrate their work in one of these areas. The requirements for these specialized majors are, however, based upon the principle that all majors in any phase of dramatic art and speech should have a general background of certain basic courses. The program is flexible and is intended to meet the needs and abilities of the individual student.

The University College program should include:	Hours
Speech 2—Voice and Articulation, or	
Speech 3—Public Speaking -----	2
F. A. 17-18—Introduction to the Fine Arts -----	6

Majors in theatre must elect 12 hours of English beyond the University College requirement, including Eng. 151—Shakespeare, and at least 3 additional hours in dramatic literature. Comprehensive majors and majors in radio, speech correction, or public address must elect 6 hours of English beyond the University College requirement. However, those students who anticipate teaching speech and English in the public schools should also elect additional courses in English to complete a minor of 15 hours, as specified under requirements for certification.

SPEECH AND HEARING CLINIC. The School of Dramatic Art and Speech maintains a speech and hearing clinic which serves the needs of students, faculty, and the public. Consultations concerning all types of speech disorders may be arranged with the director of the clinic. Remedial treatment for cases of a functional nature is provided free of charge under the direction of a competent speech pathologist. A special speech clinic for children serves the Athens area and provides excellent training opportunities for students in speech correction.

BASIC COURSES REQUIRED FOR ALL MAJORS

	Hours		Hours
Speech 2—Voice and Articulation -----	2	Speech 195—Principles of	
Speech 3—Public Speaking -----	2	Speech Correction -----	3
Speech 25—Principles of Argumentation 2		Radio 5—Radio Speech -----	2
Speech 34—Oral Interpretation of Literature -----	3		

COMPREHENSIVE MAJOR IN DRAMATIC ART, RADIO, SPEECH AND SPEECH CORRECTION

In addition to the basic courses listed above, the following must be completed:

Dram. A. 21—Elements of Stage Scenery or		Speech 113—Public Address (2) or
Dram. A. 23—Elements of Stage Lighting -----	3	Speech 117—Debate Practice (2) or
Dram. A. 47 or 147—Theatre Laboratory 1		Speech 47—Speech Laboratory (1) (Choral Speaking) -----1-2
Dram. A. 101—Movement and Pantomime -----	2	Radio 125—Radio Play Production (3) or
Dram. A. 105—Play Production -----	3	Speech 202—Advanced Oral Inter- pretation (3) or
Dram. A. 199—Principles of Acting---	3	Speech 207—Clinical Methods (3) or
Speech 112—Advanced Public Speaking -----	3	Speech 209—Rhetorical Theory (3) or
		Speech 212—Phonetics (3) ----- 6
		Minimum total in major -----36

MAJOR IN PUBLIC ADDRESS*

In addition to the basic courses listed above, the following must be completed:

Speech 112—Advanced Public Speaking- 3		Speech 209—Rhetorical Theory ----- 3
Speech 113—Public Address ----- 2		Dram. A. 101—Movement and Pantomime ----- 2
Speech 117—Debate Practice ----- 2		Dram. A. 105—Play Production ----- 3
Speech 202—Advanced Oral Interpretation ----- 3		Electives in speech and speech cor- rection, dramatic art, or radio ----- 5
		Minimum total in major -----36

*Majors in public address must also elect F. A. 203-204—History of Oratory, as one of the minor subjects.

MAJOR IN RADIO

In addition to the basic courses listed above, the following must be completed:

Radio 105—Radio Broadcasting Mechanics	2
Radio 125-126—Radio Play Production	6
Radio 179—Introduction to Radio	2
Radio 216—Writing for Radio	2
Radio 247—Radio Workshop	2
Speech 212—Phonetics	3
Dram. A. 105—Play Production	3
Electives in radio, radio journalism, or music appreciation*	2
Minimum total in major	36

MAJOR IN SPEECH CORRECTION

In addition to the basic courses listed above, the following must be completed:

Speech 207—Clinical Methods	3	Speech 220—Advanced Clinical Methods	3
Speech 210—Speech Pathology	3	Speech 223—Lip Reading	3
Speech 212—Phonetics	3	Electives in speech, dramatic art,	
Speech 219—Audiometry and Speech and Hearing Problems	3	or radio	2
		Minimum total in major	34

Students who anticipate obtaining positions in speech and hearing therapy in the public schools or who may wish to become clinical members of the American Speech Correction Association must also include in their elective subjects the following courses in psychology and education:

PSYCHOLOGY (Minimum of 22 semester hours required)

Psych. 1—General Psychology	3
Psych. 3—Child Psychology	3
Psych. 5—Educational Psychology	3
Psych. 203—Mental Measurements	3
Psych. 204—Psychology of Exceptional Children	2
Psych. 210—Mental Hygiene	3
To be elected from the following	5
Psych. 113—Psychology of Adolescence	3
Psych. 216—Psychology of Individual Differences	2
Psych. 237—Counseling and Psychotherapy	3

EDUCATION (Minimum of 14 semester hours required)

Ed. 162s—Speech and Hearing Therapy in the Public Schools	2
Ed. 186—Student Teaching in Speech Correction	3
Ed. 211—The Child and The Curriculum	3
Ed. 125—Purposes and Practices of Education	4
To be elected from the following	2-3
Ed. 103—Studies of Children	3
Ed. 212—Senior Conference in Elementary Education	2
Ed. 248—Student Personnel Services—Principles	3

(A course in sociology covering case work is also highly recommended.)

*Students who do not have a reasonable proficiency in typewriting must elect, in addition, Sec. St. 15—Typewriting.

MAJOR IN THEATRE

In addition to the basic courses listed above, the following must also be completed:**

Dram. A. 21—Elements of Stage Scenery	3
Dram. A. 23—Elements of Stage Lighting	3
Dram. A. 101-102—Movement and Pantomime	4
Dram. A. 107-108—Costuming and Makeup	4
Dram. A. 199—Principles of Acting	3
Dram. A. 250—Play Direction	3
Dram. A. 103, 122, 147, 200, 206, 221, 222, 251 or 253	3
Minimum total in major	37

MAJORS IN THE SCHOOL OF MUSIC. Ohio University is a member of the National Association of Schools of Music. The requirements for entrance and for graduation as set forth in this catalog are in accordance with the published regulations of the association.

The School of Music makes provisions for individual study in all branches of vocal and instrumental music and offers a wide range of courses in the fields of theory and composition, music history and literature, and music education. Opportunities are provided for individual participation in student recitals, as well as for ensemble experience in groups such as the chorus, symphony orchestra, symphonic band, chamber music, and glee clubs.

Six hours of English beyond the University College requirement are to be taken by candidates for the degree of Bachelor of Fine Arts with a major in music. A required minor consists of 24 hours of general courses in the fine arts.

Students who desire to specialize in the field of music education are given the opportunity of preparing for the positions of special music teacher or music supervisor while working toward the degree of Bachelor of Fine Arts. In accordance with state requirements, the major may be either vocal or instrumental.

Students in the College of Arts and Sciences may major in two areas—music history and literature or music theory. The Director of the School of Music should be consulted as the adviser of the course.

Examinations in applied music are given at the end of each semester by a faculty committee in the applied music field concerned. The examinations must be taken by all music majors in those applied music courses which are required for the degree.

The following curricula have been set up for music majors in the College of Fine Arts:

MAJOR IN PIANO
(Four-Year Curriculum)

Twenty-six semester hours in applied music, including Piano 51-52, 101-102, 201-202, 251-252, and 8 hours in ensemble (chorus, orchestra, band, or chamber music).

**Theatre majors must also elect F. A. 179-180—History of the Visual Theatre, as one of their minor subjects.

Twenty-six semester hours in the theory and literature of music, including Mus. 3-4, 103-104, 105-106, 201-202, 240, and one of the following: Mus. 213-214, 215-216, 217-218, or 219-220.

Twenty-four semester hours, to constitute the minor, in general courses in the fine arts, including F. A. 17-18 and 123-124.

Twenty-one to twenty-five hours of general requirements, including 12 hours in English, Speech 1, 2 to 4 hours in physical education, and other subjects to fulfill the University College requirements.

Twenty-five to twenty-seven semester hours of elective courses.

Total requirements: 124 semester hours.

Freshman Program*

The University College program should include:

First Semester	Hours	Second Semester	Hours
Piano 51—Freshman Piano	2	Piano 52—Freshman Piano	2
Mus. 3—Theory	3	Mus. 4—Theory	3
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the	
Ensemble	1	Fine Arts	
University College requirements	7	Ensemble	1
	16	University College requirements	8
			17

Sophomore Program*

Piano 101—Sophomore Piano	2	Piano 102—Sophomore Piano	2
Mus. 103—Dictation and Sight Singing	2	Mus. 104—Dictation and Sight Singing	2
Mus. 105—Harmony	3	Mus. 106—Harmony	3
English elective	3	English elective	3
Fine arts minor	3	Fine arts minor	3
Ensemble	1	Ensemble	1
Electives	3	Electives	3
	17		17

Junior Program

Piano 201—Junior Piano	2	Piano 202—Junior Piano	2
Mus. 201—Analysis and Form	2	Mus. 202—Analysis and Form	2
F. A. 123—History of Music	3	F. A. 124—History of Music	3
Ensemble	1	Ensemble	1
Electives	7	Electives	7
	15		15

Senior Program

Piano 251—Senior Piano	3	Piano 252—Senior Piano	3
Mus. 240—The Literature of		Advanced music theory elective	2
Piano Music	2	Ensemble	1
Advanced music theory elective	2	Fine arts minor	3
Ensemble	1	Electives	5
Fine arts minor	3		
Electives	4		14
	15		

MAJOR IN VOICE

(Four-Year Curriculum)

Thirty semester hours in applied music, including Voice 51-52, 101-102, 201-202, 251-252, completion of Piano 4, and 8 hours in ensemble (chorus).

Twenty-two semester hours in the theory and literature of music, including Mus. 3-4, 103-104, 105-106, 201-202, and 237 or 239.

Twenty-four semester hours, to constitute the minor, in general courses in the fine arts, including F. A. 17-18 and 123-124.

*Physical education should be added as required.

Thirty-nine to forty-three hours of general requirements, including 12 hours in English, Speech 1, 2 to 4 hours in physical education, and other subjects to fulfill the University College requirements.

Seven to nine semester hours of elective courses.

Total requirements: 124 semester hours.

Freshman Program*

The University College program should include:

First Semester	Hours	Second Semester	Hours
Voice 51—Freshman Voice	2	Voice 52—Freshman Voice	2
Mus. 3—Theory	3	Mus. 4—Theory	3
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3
Ensemble	1	Ensemble	1
University College requirements	7	University College requirements	8
	16		17

Sophomore Program*

Voice 101—Sophomore Voice	2	Voice 102—Sophomore Voice	2
Piano 1—Secondary Piano	1	Piano 2—Secondary Piano	1
Mus. 103—Dictation and Sight Singing	2	Mus. 104—Dictation and Sight Singing	2
Mus. 105—Harmony	3	Mus. 106—Harmony	3
English elective	3	English elective	3
Fr. 1—Beginning French	4	Fr. 2—Beginning French	4
Ensemble	1	Ensemble	1
	16		16

Junior Program

Voice 201—Junior Voice	2	Voice 202—Junior Voice	2
Piano 3—Secondary Piano	1	Piano 4—Secondary Piano	1
Mus. 201—Analysis and Form	2	Mus. 202—Analysis and Form	2
F. A. 123—History of Music	3	F. A. 124—History of Music	3
Ger. 1—Beginning German	4	Ger. 2—Beginning German	4
Ensemble	1	Ensemble	1
Electives	2	Electives	2
	15		15

Senior Program

Voice 251—Senior Voice	3	Voice 252—Senior Voice	3
It. 1—Beginning Italian	2	Mus. 237—The Literature of	
Fine arts minor	6	Vocal Music or	
Ensemble	1	Mus. 239—The Evolution of the Opera	2
Electives	3	Fine arts minor	6
	15	Ensemble	1
		Electives	2
			14

**MAJOR IN ORCHESTRAL INSTRUMENTS: STRINGS, WOODWINDS,
BRASS, OR PERCUSSION**
(Four-Year Curriculum)

Thirty semester hours in applied music, including Major Instrument 51-52, 101-102, 201-202, 251-252, completion of Piano 4, and 8 hours of ensemble (orchestra, band, or chamber music).

Twenty-six semester hours in the theory and literature of music, including Mus. 3-4, 103-104, 105-106, 201-202, 238, and one of the following: Mus. 213-214, 215-216, 217-218, or 219-220.

Twenty-four semester hours, to constitute the minor, in general courses in the fine arts, including F. A. 17-18 and 123-124.

Twenty-one to twenty-five hours of general requirements, including 12 hours in English, Speech 1, 2 to 4 hours in physical education, and other subjects to fulfill the University College requirements.

Twenty-one to twenty-three semester hours of elective courses.

*Physical education should be added as required.

Total requirements: 124 semester hours.

Freshman Program*

The University College program should include:

First Semester	Hours	Second Semester	Hours
Major Instrument 51	2	Major Instrument 52	2
Mus. 3—Theory	3	Mus. 4—Theory	3
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3
Ensemble	1	Ensemble	1
University College requirements	7	University College requirements	8
	16		17

Sophomore Program*

Major Instrument 101	2	Major Instrument 102	2
Piano 1—Secondary Piano	1	Piano 2—Secondary Piano	1
Mus. 103—Dictation and Sight Singing	2	Mus. 104—Dictation and Sight Singing	2
Mus. 105—Harmony	3	Mus. 106—Harmony	3
English elective	3	English elective	3
Fine arts minor	3	Fine arts minor	3
Ensemble	1	Ensemble	1
	15		15

Junior Program

Major Instrument 201	2	Major Instrument 202	2
Piano 3—Secondary Piano	1	Piano 4—Secondary Piano	1
Mus. 201—Analysis and Form	2	Mus. 202—Analysis and Form	2
F. A. 123—History of Music	3	F. A. 124—History of Music	3
Ensemble	1	Ensemble	1
Electives	7	Electives	6
	16		15

Senior Program

Major Instrument 251	3	Major Instrument 252	3
Advanced music theory elective	2	Advanced music theory elective	2
Fine arts minor	3	Fine arts minor	3
Ensemble	1	Mus. 238—The Literature of Orchestral Music	2
Electives	6	Ensemble	1
	15	Electives	4
	15		15

MAJOR IN MUSIC THEORY OR COMPOSITION

(Four-Year Curriculum)

Sixteen semester hours in applied music, including course 14 in the principal instrument, Mus. 161, 163, and 8 hours in ensemble (chorus, orchestra, band, or chamber music). Piano 6 is required if the principal instrument is not piano.

Forty to forty-four semester hours in the theory and literature of music, including Mus. 3-4, 103-104, 105,106, 201-202, 213-214, 215-216, 217-218, 219-220, 257-258, and 271-272. (Mus. 271-272 is required only of majors in composition.)

Twenty-four semester hours, to constitute the minor, in general courses in the fine arts, including F. A. 17-18 and 123-124.

Twenty-one to twenty-five hours of general requirements, including 12 hours in English, Speech 1, 2 to 4 hours in physical education, and other subjects to fulfill the University College requirements.

Seventeen to twenty-three semester hours of elective courses.

Total requirements: 124 semester hours.

Freshman Program*

The University College program should include:

Course 11 in principal instrument	1	Course 12 in principal instrument	1
Mus. 3—Theory	3	Mus. 4—Theory	3
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3
Ensemble	1	Ensemble	1
University College requirements	7	University College requirements	8

15

16

*Physical education should be added as required.

Sophomore Program*

Course 13 in principal instrument	1	Course 14 in principal instrument	1
Mus. 103—Dictation and Sight Singing	2	Mus. 104—Dictation and Sight Singing	2
Mus. 105—Harmony	3	Mus. 106—Harmony	3
Mus. 161—String Techniques and Materials	2	English elective	3
English elective	3	Fine arts minor	3
Fine arts minor	3	Ensemble	1
Ensemble	1	Electives	2
			15

15

Junior Program

Mus. 163—Wind and Percussion Techniques and Materials	2	Mus. 202—Analysis and Form	2
Mus. 201—Analysis and Form	2	Mus. 216—Advanced Harmony	2
Mus. 215—Advanced Harmony	2	Mus. 218—Counterpoint	2
Mus. 217—Counterpoint	2	Mus. 220—Composition	2
Mus. 219—Composition	2	F. A. 124—History of Music	3
F. A. 123—History of Music	3	Ensemble	1
Ensemble	1	Electives	4
Electives	2		16

16

Senior Program

Mus. 213—Orchestration	2	Mus. 214—Orchestration	2
Mus. 257—Counterpoint	2	Mus. 258—Counterpoint	2
Mus. 271—Composition**	2	Mus. 272—Composition**	2
Fine arts minor	3	Fine arts minor	3
Ensemble	1	Ensemble	1
Electives	6-8	Electives	5-7

16-18

15-17

MAJOR IN MUSIC LITERATURE

(Four-Year Curriculum)

Sixteen semester hours in applied music, including course 18 in the principal instrument, and 8 hours in ensemble (chorus, orchestra, band, or chamber music). Piano 6 is required if the principal instrument is not piano.

Twenty-six semester hours in the theory and literature of music, including Mus. 3-4, 103-104, 105-106, 201-202, and 6 hours chosen from Mus. 237, 238, 239, and 240.

Twenty-four semester hours to constitute the minor, in general courses in the fine arts, including F. A. 17-18 and 123-124.

Forty-three to forty-seven hours of general requirements, including 12 hours in English, Speech 1, 2 to 4 hours in physical education, and other subjects to fulfill the University College requirements.

Thirteen to fifteen hours of elective courses.

Total requirements: 124 semester hours.

Freshman Program*

The University College program should include:

Course 11 in principal instrument	1	Course 12 in principal instrument	1
Mus. 3—Theory	3	Mus. 4—Theory	3
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3
Ensemble	1	Ensemble	1
University College requirements	7	University College requirements	8
			16

15

Sophomore Program*

Course 13 in principal instrument	1	Course 14 in principal instrument	1
Mus. 103—Dictation and Sight Singing	2	Mus. 104—Dictation and Sight Singing	2
Mus. 105—Harmony	3	Mus. 106—Harmony	3
English elective	3	English elective	3
Fine arts minor	3	Fine arts minor	3
Hist. 1—Western Civilization in Modern Times	3	Hist. 2—Western Civilization in Modern Times	3
Ensemble	1	Ensemble	1

16

16

*Physical education should be added as required.

**Required of majors in composition only.

Junior Program

Course 15 in principal instrument	1	Course 16 in principal instrument	1
Mus. 201—Analysis and Form	2	Mus. 202—Analysis and Form	2
F. A. 123—History of Music	3	F. A. 124—History of Music	3
Fr. 1—Beginning French	4	Fr. 2—Beginning French	4
Ensemble	1	Ensemble	1
Electives	5	Electives	5
	16		16

Senior Program

Course 17 in principal instrument	1	Course 18 in principal instrument	1
Music literature elective	4	Music literature elective	2
Fine arts minor	3	Fine arts minor	3
Ger. 1—Beginning German	4	Ger. 2—Beginning German	4
Ensemble	1	Ensemble	1
Electives	2	Electives	3
	15		14

MAJORS IN THE SCHOOL OF PAINTING AND ALLIED ARTS. The School of Painting and Allied Arts provides curricula for those interested in combining general education with specialized training in the following fields: architecture, commercial design, constructive design, costume design, decorative design, plastic design, art history, drawing and painting, photography, and art education.

Students working toward the Bachelor of Fine Arts degree with a major in the School of Painting and Allied Arts must complete at least 32 semester hours of work in the School, including Design 11—Basic Design and Paint. 45—Methods in Representation. To fulfill the requirements for the degree, they must also complete a minor of 24 semester hours of general courses in the fine arts.

Six hours of English beyond the University College requirement are to be completed by candidates for the degree of Bachelor of Fine Arts with a major in painting and allied arts.

Elective courses should be chosen to fit the individual needs of the student.

COMPREHENSIVE MAJOR IN ART

The program suggested below should be of interest to students who desire a general appreciation of the entire fine arts field with some degree of skill in several of the arts. Electives may be used for courses in English and the social sciences or may be applied to the major program. As the student becomes more familiar with general university offerings, electives in many fields may be found desirable.

Freshman Program*

The University College program should include:

Design 11—Basic Design	2	Design 12—Basic Design	2
Paint. 45—Methods in Representation	2	Paint. 46—Methods in Representation	2
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3
University College requirements	9	University College requirements	9
	16		16

Sophomore Program*

Arch. 55—Fundamentals of Architecture	3	Arch. 56—Fundamentals of Architecture	3
Photog. 77—Basic Photography	3	Paint. 28—Figure Drawing	2
Paint. 75—Representation	3	Paint. 76—Depth	3
Design 123—Jewelry	2	F. A. 122—History of Painting	
F. A. 121—History of Painting and Sculpture	3	and Sculpture	3
Electives	2	Electives	5
	15		16

*Physical education should be added as required.

Junior Program

Paint. 135—Caricature	2	Paint. 136—Caricature	2
Paint. 71—Sketching	2	Paint. 118—Water Color	3
Paint. 117—Form and Composition	3	Design 113—Lettering	3
Sculp. 115—Ceramics	3	Sculp. 131—Sculpture	3
F. A. 175—History of Architecture	3	F. A. 176—History of Architecture	3
Electives	2	Electives	2
	15		16

Senior Program

Paint. 205—Painting	3	Paint. 205—Painting	3
Paint. 209—Prints	3	Paint. 210—Prints	3
Fine arts minor	3	Fine arts minor	3
Electives	6	Electives	6

15

15

MAJOR IN ARCHITECTURE

Candidates for the Bachelor of Fine Arts degree may elect architecture as a major within the School of Painting and Allied Arts. They should complete 28 hours in architectural courses, in addition to Design 11 and Paint. 45. A curriculum has been designed to provide an overall knowledge of the subject supported by a study of the liberal arts and related fine arts. Students, upon completing the architectural curriculum, should be prepared for positions as architectural draftsmen and assistants in architects' offices, where they may gain practical experience usually required by state boards. Certain students with outstanding skill should plan, upon receiving the B.F.A. degree, to pursue graduate study at one of the accredited schools of architecture.

For the student who chooses, upon graduation, to enter fields closely allied to architecture and building, opportunities exist in the design, manufacture, distribution, and installation of the materials of architecture. A developed, imaginative power and a structural sense are desirable attributes for work in industrial design and in the design and construction of display features and structures.

The architectural courses not only are available for those working toward a professional goal but are of general educational value to potential homeowners, to business and professional members of a community, in fact, to any persons who are interested in buildings for personal, commercial, educational, and recreational purposes.

A program for the student wishing to major in architecture is suggested below:

Freshman Program*

The University College program should include:

Design 11—Basic Design	2	Paint. 45—Methods in Representation	2
Arch. 55—Fundamentals of Architecture	3	Arch. 56—Fundamentals of Architecture	3
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3
Math. 5—Freshman Mathematics	5	Math. 6—Freshman Mathematics	5
University College requirements	3	University College requirements	3
	16		16

Sophomore Program*

Phys. 5—Introduction to Physics	4	Phys. 6—Introduction to Physics	4
Arch. 155—Architectural Design	5	Arch. 156—Architectural Design	5
Arch. 179—Architectural Materials	3	Arch. 183—Architectural Equipment	3
Fine arts minor	3	Fine arts minor	3
Electives	3	Electives	3
	16		16

*Physical education should be added as required.

Junior Program

F. A. 175—History of Architecture	3	F. A. 176—History of Architecture	3
Arch. 181—Architectural Construction	2	Arch. 182—Architectural Construction	2
Arch. 157—Fundamentals of Residential Architecture	2	Arch. 158—Fundamentals of Residential Architecture	2
Electives	9	Electives	8
	16		15

Senior Program

Arch. 184—Working Drawings	2	Arch. 201—Workshop in Architecture	3
Arch. 185—Architectural Problems	3	Arch. 186—Architectural Problems	3
Fine arts minor	3	Fine arts minor	3
Electives	8	Electives	7
	16		16

MAJOR IN DESIGN

In the general field of design, several types of major interests are possible. Options in Costume Design, Graphic Design, Plastic Design, or Interior Decoration are provided and should be initiated in the junior year.

Attention is directed toward the inclusion of basic courses in the freshman and sophomore programs, leaving the third and fourth years free for practical work in the options and desired electives. The following program is suggested for the guidance of the student:

Freshman Program*

The University College program should include:			
Design 11—Basic Design	2	Design 12—Basic Design	2
Paint. 45—Methods in Representation	2	Paint. 46—Methods in Representation	2
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3
University College requirements	8	University College requirements	8
	15		15

Sophomore Program*

F. A. 121—History of Painting and Sculpture	3	F. A. 122—History of Painting and Sculpture	3
Paint. 28—Figure Drawing	2	Design 120—Textile Design	3
Design 113—Lettering	3	Arch. 56—Fundamentals of Architecture	3
Arch. 55—Fundamentals of Architecture	3	Sculp. 115—Ceramics	3
Electives	5	Electives	5
	16		17

Junior Program

F. A. 175—History of Architecture	3	F. A. 176—History of Architecture	3
Design 123—Jewelry	2	Photog. 78—Basic Photography	3
Photog. 77—Basic Photography	3	Major option and electives	10
Major option and electives	8		
	16		16

Senior Program

F. A. 179—History of the Visual Theatre	3	F. A. 180—History of the Visual Theatre	3
Major option and electives	12	Major option and electives	12
	15		15

Costume Design Option

Design 137-138—Costume Design, Design 221—Advanced Costume Design, Design 281—Research in Design.

Graphic Design Option

Design 114—Lettering, Design 147-148—Advertising Design, Design 207—Advanced Design, Design 217-218—Advanced Advertising Design, Design 251-252—Industrial Design, Design 281—Research in Design.

Plastic Design Option

Sculp. 116—Ceramics, Sculp. 131—Sculpture, Design 140—Design Applied to Materials, Sculp. 216—Advanced Ceramics, Design 225—Advanced Jewelry, Design 281—Research in Design.

Interior Decoration Option

Design 171-172—Interior Decoration, Design 213—Advanced Interior Decoration, Design 281—Research in Design.

MAJOR IN PAINTING AND DRAWING

Commercial illustration by present day standards is an involved and complicated business. Success in this field demands great ability in drawing and painting, a clear understanding of basic design, the ability to use the camera effectively, and a broad general training in human relations. Basic skills and knowledge should be acquired during the first two years; employing print processes, artists' tools and materials, and machines should be left for the junior and senior years.

The following program is suggested for the guidance of the student:

Freshman Program*

The University College program should include:

Design 11—Basic Design	2	Design 12—Basic Design	2
Paint. 45—Methods in Representation	2	Paint. 46—Methods in Representation	2
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3
University College requirements	8	University College requirements	8
	15		15

Sophomore Program*

Paint. 28—Figure Drawing	2	Paint. 71—Sketching	2
Paint. 75—Representation	3	Paint. 76—Depth	3
F. A. 121—History of Painting and Sculpture	3	F. A. 122—History of Painting and Sculpture	3
Photog. 77—Basic Photography	3	Photog. 78—Basic Photography	3
Electives	5	Electives	5
	16		16

Junior Program

Paint. 117—Form and Composition	3	Paint. 118—Water Color	3
Paint. 135—Caricature	2	Paint. 136—Caricature	2
Paint. 205—Painting	3	Paint. 211—Form in Modern Painting	3
F. A. 175—History of Architecture	3	F. A. 176—History of Architecture	3
Electives	5	Electives	5
	16		16

Senior Program

Paint. 209—Prints	3	Paint. 210—Prints	3
Paint. 228—Life Drawing	3	Paint. 215—Advanced Form	2
Fine arts minor	3	and Composition	2
Electives	6	Fine arts minor	3
	15	Electives	7
			15

MAJOR IN PHOTOGRAPHY

Candidates for the Bachelor of Fine Arts degree electing photography as a field of concentration follow the regular sequence of photography courses during their freshman and sophomore years with advanced study in commercial and illustrative photography and portraiture.

The curriculum is planned to give students an opportunity to combine specialized study with a broad university training. Students are urged to enroll in such related courses as Theory of Design, Methods in Representation, Sketching, and Figure Drawing. They may elect, in the College of Commerce, courses which will aid them in their objectives.

*Physical education should be added as required.

The first two years of training in the fundamentals of photography will enable the student to carry out independently any assignment that may confront him in an average studio. The advanced courses in Portraiture or Commercial and Illustrative Photography, offered alternately and taught by outside lecturers, will give the student an opportunity for specialized training, which, within the limit of time devoted to them, will equal that offered by a professional school. Majors are expected to complete both courses.

The student graduating with a major in photography will be capable of opening his own studio, working as a free-lance photographer, and finding employment in the broad field of professional photography or in the photographic industry. If he chooses to meet the state requirements for certification, he may plan to teach photography in the public schools. While the number of positions in the educational field is somewhat limited, the demand for teachers of photography is increasing. It is necessary to prepare to teach some other subjects in combination with photography.

The following program is suggested for the guidance of the student:

Freshman Program*

The University College program should include:

Design 11—Basic Design	2	Paint. 45—Methods in Representation	2
Photog. 77—Basic Photography	3	Photog. 78—Basic Photography	3
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3
University College requirements	7	University College requirements	7
	<hr/>		<hr/>
	15		15

Sophomore Program*

Photog. 143—Photographic Processes	3	Photog. 144—Photographic Processes	3
Photog. 145—Workshop in Photography (optional)	3	Photog. 133—News Photography (optional)	2
Fine arts minor	3	Fine arts minor	3
Electives	7	Electives	8
	<hr/>		<hr/>
	16		16

Junior Program

Photog. 277—Portraiture	3	Photog. 278—Portraiture	3
F. A. 121—History of Painting and Sculpture	3	F. A. 122—History of Painting and Sculpture	3
Electives	4	Electives	8
	<hr/>		<hr/>
	16		16

Senior Program

Photog. 279—Commercial and Illustrative Photography	5	Photog. 280—Commercial and Illustrative Photography	5
Photog. 281—Advanced Workshop in Photography (optional)	3	Photog. 281—Advanced Workshop in Photography (optional)	3
Fine arts minor	3	Fine arts minor	3
Electives	4	Electives	4
	<hr/>		<hr/>
	15		15

MINOR IN THE FINE ARTS. All students who work toward the Bachelor of Fine Arts degree with a major in one of the three schools of the College must complete a minor of 24 hours in general courses in the fine arts, including F. A. 17-18—Introduction to the Fine Arts. In addition to this course, five others are offered from which the student must select three: History of Painting and Sculpture, History of Music, History of Architecture, History of the Visual Theatre, History of Oratory. Descriptions of the general courses may be found on page 229 under Fine Arts.

*Physical education should be added as required.

THE GRADUATE COLLEGE

W. S. GAMERTSFELDER

DEAN

Agriculture	Journalism
Botany	Management
Chemistry	Mathematics
Classical Languages	Music
Commerce and Business	Painting and Allied Arts
Dramatic Art	(including Photography)
Economics	Philosophy
Education and School Administration	Physical Education
English	Physics
Geography and Geology <i>(minor work only)</i>	Psychology
German <i>(minor work only)</i>	Radio
Government	Romance Languages
History	Sociology
Home Economics	Speech and Speech Correction
Human Relations	
Industrial Arts	Zoology

THE GRADUATE COLLEGE

SCOPE OF OFFERINGS. The Graduate College was formally organized in 1936 under the direction of the Graduate Council, of which the Dean of the College is chairman. Approximately 750 courses are at present available for graduate study in 29 academic and professional fields.

DEGREES. The Graduate College offers work in academic and professional fields and confers the degrees of Master of Arts, Master of Science, Master of Education, and Master of Fine Arts.

Doctorate degrees are not conferred since, by agreement among all of the state universities of Ohio, such degrees are conferred only by The Ohio State University at Columbus. Graduate work at Ohio University, however, is fully recognized and accepted toward a higher degree.

ADMISSION. Subject to the usual regulations of the University, applicants who hold the bachelor's degree from fully accredited colleges or universities and who have an undergraduate scholastic average of 2.5, or above, will be admitted to the Graduate College on recommendation of the department chairman.* Applicants from fully-accredited colleges or universities whose undergraduate scholastic average is below 2.5 and who are recommended for admission by the department chairman will be admitted, provided they make a satisfactory grade on the Graduate Record Examination or achieve a B level (70 percentile rank) on a standard college ability test.**

Applicants who hold the bachelor's degree from unaccredited colleges or universities and who have a minimum undergraduate scholastic average of 2.5 will be admitted if they are recommended for admission by the department chairman and if they make a satisfactory grade on the Graduate Record Examination or achieve a B level (70 percentile rank) on a standard college ability test.**

Application for admission should be made on a blank obtainable from the office of the Director of Admissions and must be accompanied by an official transcript of the applicant's college record, except in the case of a graduate of Ohio University. These documents should be filed with the Director of Admissions at least a month before the opening of the term in which the applicant begins his studies.

An Ohio University student who is within nine hours of completing all requirements for the bachelor's degree may take courses for application on the master's degree requirements, provided he is otherwise eligible.

*See page 56, "Graduate Students."

**Information regarding this examination may be had at the office of the Director of Admissions or the office of the Supervisor of Testing Service. While it is not required, except as indicated above, applicants for admission may submit their scores on the Graduate Record Examination as valuable evidence of fitness for admission. The Graduate Record Examination, with which Ohio University and other universities have had several years of experience, is a test of general, intellectual equipment. It is now being made widely available to prospective graduate students by Carnegie Foundation for the Advancement of Teaching. Those who have taken this test are urged to have the Graduate Record Office report their scores to the Director of Admissions. Examinations will be given in February, May, August, and October. Further information about the Graduate Record Examination may be obtained by writing to The Graduate Record Office, 437 West 59th Street, New York 19, New York.

for admission to the Graduate College and provided he secures written approval from the dean of his college, the chairman of the major department and from the Dean of the Graduate College. Application for graduate credit must be made in advance of registration for the work.

A student who qualifies for admission receives a permit to register. He then confers with the Dean of the Graduate College who counsels with him regarding his plans for graduate study and directs him to the dean or department chairman who has supervision over the subject-matter field in which the student has chosen to do his graduate work. This dean or chairman will appoint the faculty adviser in the major and minor fields. The student's outline of graduate study is made by the advisers in conference with the student. A student may be registered in the Graduate College without becoming a candidate for a graduate degree. Therefore, admission to the Graduate College does not of itself constitute admission to candidacy for a degree.

A student who is qualified to enter the Graduate College but who pursues courses with no regard to a major or minor and with no thought of qualifying for a master's degree is classified as a special student.

CREDIT AND RESIDENCE. At least 32 semester hours of credit are required for the master's degree. A maximum of eight semester hours of credit with A or B grades is accepted by transfer from approved institutions which offer the master's degree, provided the transferred course work is acceptable to the student's adviser. Credit for courses taken by correspondence is not accepted toward the degree. A maximum of six semester hours taken in extension classes is accepted toward the degree, provided the courses are conducted by instructors who regularly teach them on the campus. A graduate student who is employed full time may, with the approval of his major adviser and the Dean, carry a maximum of six hours of credit work in a semester or summer session. The grade of incomplete on a problem, research, or seminar course must, by arrangement with the instructor, be removed within one year after the official closing of the session in which the course was taken. An incomplete on the thesis will be removed with the completion of the thesis. An incomplete on all other courses, whether graduate or undergraduate, must be removed within six weeks after the opening of the next session in which the student is in residence.

All work submitted for graduate credit shall be of high quality. The minimum standard acceptable is a point-hour ratio of 3.0 in all courses attempted in fields chosen to meet degree requirements, with no grade below C, and not more than 20 per cent of the work accepted with a grade of C. A minimum average grade of B is required in all courses taken at Ohio University for application on the degree requirements.

After securing a bachelor's degree, an adequately prepared student may be able to complete the work for the master's degree in one year of two semesters, in four eight-week terms of the summer session, or in a minimum of three eight-week summer terms and two three-week sessions. Many students find it necessary to take two semesters and a summer session for the course work and the thesis. The minimum residence requirement is 30 weeks. A transfer student is required to have a mini-

mum residence at Ohio University of one semester and one eight-week summer term, or three eight-week summer terms, or at least 24 weeks. A student who takes courses for graduate credit in extension classes is required to have a minimum residence at Ohio University of one semester and an eight-week summer term, or three eight-week summer terms and a three-week session, or at least 24 weeks.

The maximum time allowed between the date when a student is admitted to the Graduate College and begins graduate study and the date when the requirements for the degree are completed is six years. Students who do not complete their requirements for the degree within the six-year period are obliged to have their graduate outlines reviewed and revised in the light of current catalog requirements. An extension of time is given upon request to students who served in the armed forces and to other students whose circumstances are exceptional.

COURSES FOR GRADUATE CREDIT. Credit toward a graduate degree is given for the completion of courses designed for graduate students (numbered 300-399) and courses designed for advanced undergraduates and graduates (numbered 200-299), provided the courses are included in the student's approved program of study.

FEES. The fees for graduate students are the same as those for undergraduates. See "Fees and Deposits" for a full statement of fees.

PROGRAM OF STUDY. A student's program of study is made up of two parts, a major and a minor, unless a program otherwise arranged by the adviser is approved by the Graduate Council. Since graduate work implies advanced study and some degree of specialization, a minimum of 18 semester hours of undergraduate credit is presupposed before a student can pursue his major subject for graduate credit. With the approval of the Committee on Graduate Study in a department and the Graduate Council, a student may submit courses in related subjects in lieu of a part of the eighteen hours required. An exception is made also for teachers who have an undergraduate comprehensive social science major and for students who are training for personnel work. In these cases special programs are arranged. Six to 12 semester hours in undergraduate preparation are usually sufficient to begin graduate work for a minor in the subject. The program in the major field varies from 12 to 20 semester hours exclusive of the thesis, for which from four to eight semester hours are allowed. The minor field in such cases makes up the remainder of the 32 semester hours required for the degree, and is selected from one or two fields of instruction closely related to the major field. However, all of the work for the master's degree may be done in one school or field on recommendation of the adviser and with the approval of the Graduate Council.

A graduate student in social science may follow any one of three optional plans of graduate study. Two of these plans are designed particularly for graduate students who have completed an undergraduate comprehensive social science major and who desire to continue this broad preparation at the graduate level. Students pursuing graduate study for personnel work or in the field of human relations are required to

have a broad undergraduate preparation in the social sciences. Their graduate outlines will be made to suit individual requirements. Further information regarding these plans may be secured at the office of the Dean.

A nonthesis program of graduate study is now available to students preparing for educational work in the public schools. Effective with the summer session, 1950, students desiring the Master of Education degree may have a program of study arranged *with or without* thesis, provided the program is approved by the Committee on Graduate Study in the major department. See section on "Thesis and Examinations."

ADMISSION TO CANDIDACY. In order to be admitted to candidacy for the master's degree, a student must show his ability and fitness to pursue graduate work in his chosen field. This may be done by completing with satisfactory grades a minimum of 12 semester hours of the program of graduate study as outlined. The further conditions of admission to candidacy are a program of graduate study and a thesis subject* acceptable to the major adviser and approved by the Dean and the Graduate Council. Application for candidacy should be made on a form obtainable at the office of the Dean and on a date not later than two weeks after the opening of the session in which the degree is to be conferred.

THESIS AND EXAMINATIONS. For the M.A., M.S., and M.F.A. degree, as partial fulfillment of the requirements for the master's degree, each candidate shall prepare a thesis† under the direction of his adviser on a subject approved by him and the Committee on Graduate Study in the department. For the M.Ed. degree, two options are offered —a thesis option and a nonthesis option. The student who completes his work under the thesis option will follow the same procedure as those who take the M.A., M.S., or the M.F.A. degree. This procedure is outlined in the later paragraphs of this section.

The *nonthesis program* for the Master of Education degree is designed especially for teachers, administrators, and others engaged in and preparing for educational work in the public schools. Though the program is available to any student who is preparing to teach one or more subjects included in the curriculum of the public schools, it will be of special interest to students in education, physical education, industrial arts, home economics, commerce, secretarial science, and journalism. The nonthesis program is available under the same requirements as the thesis program except for the following provisions:

1. The student must be approved for the program by the Committee on Graduate Study in his major department. This approval is given only if, after a review of the student's educational aims and interests, the program seems to fit his needs.
2. The student must be certified for teaching or administration, or be eligible for certification before the degree is conferred.

*No thesis is required of the candidate for the M.Ed. degree. However, such a student must apply for admission to candidacy immediately upon completing a minimum of 12 hours of work. See item 3 under "Thesis and Examinations."

†Students in applied music who take the M.A. or M.F.A. degree may offer a public recital and a recording in lieu of thesis.

3. The student must apply for admission to candidacy within two weeks after the close of the session in which he completes the first twelve hours of course work for application on the degree.
4. The student's major or minor program must be in the area of education. If the professional work is taken in the minor, it must consist of not fewer than eight or nine hours. This professional work may be taken in a department other than the College of Education, if the work is available elsewhere and better suits the student's needs.
5. The student must submit a scholarly paper on an educational or other approved subject either in connection with a regularly scheduled course or as a report on a field project. This paper must be graded as satisfactory by the student's instructor or major adviser and by a member of the Committee on Graduate Study in the department. No credit in hours toward the degree is allowed for this paper, as such.
6. The student must pass a general comprehensive written examination (objective or essay) of not less than two hours *on the broad areas and background of his major field*. The major department will advise the student as to how he should prepare for this examination and will provide the student with a reading list. This examination must be taken as directed by the major department and not later than four weeks before the date when the degree is conferred. *In addition, the student must pass the usual examination on major course work as required of candidates for other degrees.* The minor course work will be considered in this examination or in connection with the general comprehensive examination referred to above.
7. The student who has already started on the thesis program may shift to the nonthesis program, provided the shift is approved by the Committee on Graduate Study of his major department, and provided all the requirements of the nonthesis program are fulfilled.

The student with a *thesis program* will receive from four to eight hours' credit for the thesis, the number of hours being determined by the director of the thesis. Such a student is expected to pass creditably two examinations, (a) a general examination on the subject of his major field, and (b) an oral examination on the thesis.*

The general examination, which must be taken approximately one month before the oral examination on the thesis, may be written (two to four hours) or oral (one to two hours) as may be determined by the Committee on Graduate Study in the department concerned. This committee shall arrange for and supervise this examination. The student makes application for the examination through his major adviser. If the examination is written, within one week after the examination, the instructor in charge shall file a copy of the examination questions and the student's papers in the office of the Graduate College together with a report (passed or failed) on the student's examination. If the general

*Not required in the nonthesis program for the M.Ed. degree.

examination is oral, the personnel of the examining committee as arranged for by the Committee on Graduate Study shall include a member of the Graduate Council appointed by the Dean of the Graduate College. After the examination the instructor in charge shall file a report (passed or failed) in the office of the Graduate College. A candidate who fails the general examination, whether written or oral, may re-take the examination at the discretion of the Committee on Graduate Study in the department concerned.

The candidate shall pass satisfactorily an oral examination of one to two hours on the thesis not later than one week before the degree is to be conferred. The examining committee shall be composed of the director of the thesis as chairman, one additional member from the major department, one member from the minor department (or departments), and a representative of the Graduate Council as appointed by the Dean of the Graduate College. Immediately after the examination, the chairman of the committee shall file a report of the examination with the Registrar and the office of the Graduate College.

The candidate prepares his thesis under the direction of his major adviser on a subject in the field of his major work. The thesis provides an opportunity for the student to formulate and express the results of his research and study. The thesis may vary in character from an extended essay representing critical reading, independent study, and the assimilation and interpretation of a considerable body of facts, to an account, sometimes more brief, describing a research project which makes some contribution to knowledge. With the approval of the Graduate Council, the thesis requirement may be met by the presentation of the results of creative activity, for example, in literature, music, fine arts, industrial arts, together with a written essay indicating the purpose, procedure, bibliography, and problems involved in the work. A format which gives directions for writing the thesis may be obtained in the office of the Dean of the Graduate College.

After the thesis is approved, and not later than five days before the degree is conferred, the candidate files two unbound copies of the thesis with the university librarian and one bound copy of the thesis with the Dean of the Graduate College. The two copies filed with the university librarian are bound and retained in the university library, and the copy filed with the Dean is presented to the school or department in which the work has been done.

ADVANTAGES OF THESIS. While the nonthesis program of study is now available to candidates for the M.Ed. degree, it is designed particularly for the public school teacher and administrator for whom the master's work is terminal. Students who contemplate graduate work at the doctoral level will do well to avail themselves of the special educational benefits to be derived from the thesis program. Even those for whom the master's work is terminal should not overlook the values incident to the preparation of a thesis.

Some of the values of preparing a thesis under the interested guidance of a member of the faculty are: *One*, it develops the capacity to do independent investigation or research. *Two*, it gives first-hand experi-

ence with the techniques of original investigation and develops an appreciation of right and wrong procedures in the search for new knowledge. *Three*, it enables the student to read intelligently and to evaluate critically the results of original research. *Four*, it gives the student an opportunity to work closely with a mature teacher and scholar whose guidance in exploring new problems and building new knowledge is highly valuable. *Five*, the intellectual thrill of making a contribution to knowledge, however small, is a satisfaction of the highest personal value.

GRADUATE APPOINTMENTS

Ohio University usually requires the services of 30 to 40 graduate assistants and graduate fellows. Graduate assistants are selected on a basis of merit from students who have received the baccalaureate degree from approved institutions and who wish to pursue work leading to the master's degree.

A graduate assistantship carries a stipend of \$750 for the academic year of two semesters and waiver of the general registration fee and laboratory fees. The graduate assistant is required to give 18 hours of service weekly to the department of his major or minor field, and is permitted to carry 8 to 12 hours of graduate work, the hours in excess of 8 being subject to the approval of the Dean and the chairman of the department in which the student is doing his major work.

After a graduate assistant has satisfactorily completed two semesters of service, a student with an exceptionally good record may, on the recommendation of his department and the Graduate Council, be appointed a graduate fellow. The stipend of a graduate fellow for the academic year of two semesters is \$800 and waiver of the general registration fee and laboratory fees. The service given to the University and the student load carried are the same as for graduate assistants.

Graduate assistantships and graduate fellowships are usually available to qualified students in the following fields: bacteriology, botany, chemistry, dramatic art and speech, education, English, fine arts, home economics, journalism, management (production), music, personnel division of the office of the Dean of Women, physical education, physics, psychology, and zoology.

Application for a graduate assistantship or a graduate fellowship must be filed with the Dean of the Graduate College by March 1. Application blanks may be obtained from the office of the Dean of the Graduate College.

SPECIAL APPOINTMENTS IN PERSONNEL WORK. Six positions are open annually for graduate assistants in the office of the Dean of Women. The appointees receive a stipend of \$750 each for the academic year of two semesters and waiver of the general registration fee and laboratory fees, and are expected to give 18 hours of their time weekly assisting the Dean of Women. These appointees are expected to pursue graduate study in human relations or personnel work. Application may be made directly to the Dean of Women not later than March 1.

Appointments are made about April 1.

THE DIVISIONS

THE DIVISION OF PHYSICAL EDUCATION AND ATHLETICS

CARROLL C. WIDDOES, DIRECTOR

W. J. TRAUTWEIN, ASSOCIATE DIRECTOR

CARL T. NESSLEY, ASSISTANT DIRECTOR

THE R.O.T.C. DIVISION

WILLIAM H. SPEIDEL, COORDINATOR AND P.M.S.&T.

NEIL E. WALKER, P.A.S.&T.

THE UNIVERSITY EXTENSION DIVISION

J. FLOYD DIXON, DIRECTOR

THE SUMMER SCHOOL

RUSH ELLIOTT, DIRECTOR

THE BRANCHES

ALBERT C. GUBITZ, DIRECTOR

THE DIVISION OF PHYSICAL EDUCATION AND ATHLETICS

For nearly a century colleges and universities have to some degree recognized a responsibility for programs of student health practices, required physical education, recreational activities, intramural sports or intercollegiate athletics. Ohio University has kept abreast of this educational movement. It is now developing extensive plans for an expansion of facilities and programs to meet the increasing demands of the future.

One problem which is particularly significant for technically trained and professional people arises out of a developing conflict between the forces of a commercial and industrial civilization and the biological needs of growing, developing, human organisms. Modern man faces the grim necessity of preserving the achievements of his evolution. Urbanization and mechanical progress have taken away from large segments of our population natural forms of activity which developed organic structure, muscular tonus and coordination. Formerly one's developmental activities, if he were to survive, were inherent in the driving necessities of his daily life. Rapid changes in our culture and patterns of living have necessitated substitutions of sports, hobbies, recreational skills, and methods of adaptation to a more sedentary life with larger portions of leisure time. This was not an acute problem even two generations ago. It is important in these times, and it will become increasingly imperative in the future that educational programs be directed to this problem in our society.

Participation in selected physical activities which are harmonious with one's ability and desires contributes something to general health, endurance, physical skill, mental and emotional poise, and to interesting recreational forms. These activities should be engaged in throughout life in order to develop and maintain an efficient physiology. When students ignore this phase of their education, they should understand that they are closing doors against many interesting and beneficial activities which would contribute to better living. In addition to purely physical development, sports and athletic programs are rich with possibilities for the acquiring of social intelligence, sportsmanship, recreational skills and lasting friendships. These qualities fit into the American way of living.

With this in mind the Division of Physical Education and Athletics is pursuing a broad educational program which is designed to fit the diversified interests of all men and women at the University. The functions of the Division fall into the following categories:

1. *Close coordination with the program of health services directed by physicians and nurses at the University Health Center.*
2. *Required physical education courses for men and women.*
 - (a) The required program for men includes seasonal sports, athletic skills, combatives, gymnastics, and physical proficiency

tests. A maximum of four semesters of physical education may be required. Near the close of each semester physical proficiency and sports tests are given to determine who are to continue to register for successive semesters. For a detailed description of this plan refer to page 70.

(b) The two-year required program for women is on a basis of choice. The activities fall in four fields: sports and games, swimming, rhythmnics, and outing activities.

3. *Adapted Activities.*

Men and women who for any medical reason are unable to participate in the regular program are assigned with medical permission to a class where they will be directed in activities adapted to their special needs.

4. *Intercollegiate Athletics.*

Ohio University is a charter member of the Mid-American Conference which is composed of six prominent universities in the Midwest area. The other members are Cincinnati, Miami, Butler, Western Reserve, and Western Michigan.

In the administration, financing, organization and management of the intercollegiate athletic program, the Division of Physical Education and Athletics adheres to the amateur code and policies set down by the National Collegiate Athletic Association. All students are encouraged and welcome to try out for any team of their choice. Ohio University teams go into competition thoroughly coached and trained to play hard and clean athletics. This training under excellent leadership makes it a privilege and an honor to participate on athletic teams at the University.

Medical attention for athletic squads is under the direction of a team doctor assigned by the Student Health Center. He has at his disposal the facilities of a modern university hospital, and is aided by a well-qualified and experienced trainer.

University teams are organized in the following sports: football, basketball, baseball, track, wrestling, cross country, golf, tennis, and swimming.

5. *Intramural sports and recreational activities.*

The Division offers an extensive program of intramural sports for men and women. Students are encouraged to make use of all available facilities in their leisure time. This provides a way for all students to participate in sports and recreation. Upon request, clubs will be organized in sports or physical recreation activities as facilities and personnel are available.

6. *Major and minor curricula.*

Major and minor curricula are offered for prospective teachers of health education, physical education, athletic coaching, and recreational leadership. By fulfilling the requirements, students who wish to major in the Division of Physical Education and Athletics will apply for the degree, Bachelor of Science in Education.

A major in physical education and athletics prepares men and women students for the following positions: teacher of physical education in the elementary and secondary schools, teacher of health, playground director, athletic coach, camp counselor, and recreational leader for industrial concerns and municipalities. The University has been successful in assisting well-qualified graduates to find placement.

A minor in physical education and athletics is the minimum program acceptable to the State Department of Education for teaching physical education and coaching athletic teams in the secondary schools of Ohio.

A curriculum is offered which prepares men and women for work in physical rehabilitation in connection with hospitals, sanatoria, and for recreational positions with industrial concerns and municipalities. For details, see "Physical Rehabilitation," page 104.

All students majoring in physical education and athletics are required to purchase the uniform prescribed by the Division.

The Division encourages major students to assist with the instruction in men's and women's service classes. This experience is advantageous to a prospective teacher.

The university requirements pertaining to English composition, physical education, and speech are not indicated in the curriculum below. See pages 70 and 76.

The following courses constitute a teaching major in physical education and athletics:

MEN

Freshman Program

The University College program should include the following:

First Semester	Hours	Second Semester	Hours
Zool. 3—Principles of Zoology	3	Zool. 4—Principles of Zoology	3
P. E. 6—Physical Activities	2	P. E. 7—Physical Activities	2

Sophomore Program

P. E. 102—Personal and Community Health	3	P. E. 150—Recreation	3
P. E. 127—First Aid	2	Zool. 136—Elements of Physiology	4
Zool. 123—Anatomy and Kinesiology	4	P. E. 120—Physical Activities	2
P. E. 119—Physical Activities	2		

Junior Program

P. E. 133—Theory and Practice of Adapted Activities	2	P. E. 167f—Athletic Coaching	3
P. E. 167e—Athletic Coaching	3	Ed. 103—Studies of Children	3
		Ed. 167h—Teaching of Health	3

Senior Program

P. E. 204—History and Principles of Physical Education and Athletics	3	P. E. 206—Organization and Administration of Physical Education and Athletics	2
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WOMEN

Freshman Program

The University College program should include the following:

First Semester	Hours	Second Semester	Hours
P. E. 1—Sports (1)		P. E. 4—Intermediate Swimming (1) or	
P. E. 6—Elementary Tap Dancing (1) or		P. E. 8—Modern Dance (1)	1
P. E. 7—Modern Dance (1)	1	Zool. 4—Principles of Zoology	3
Zool. 3—Principles of Zoology	3		

Sophomore Program

P. E. 150—Recreation	3	P. E. 122—Physical Activities	2
P. E. 121—Physical Activities	2	Ed. 167h—Teaching of Health	3
P. E. 127—First Aid	2	Zool. 136—Elements of Physiology	4
Zool. 123—Anatomy and Kinesiology	4	P. E. 102—Personal and Community Health	3

Junior Program

P. E. 131—Mass Games -----	1	Ed. 167b—Coaching Methods -----	2
Ed. 167a—Coaching Methods -----	2	Ed. 103—Studies of Children -----	3
		P. E. 133—Theory of Adapted Activities -----	2

Senior Program

Ed. 167n—Teaching of Rhythmic Activities -----	1	Ed. 167o—Teaching of Rhythmic Activities -----	1
P. E. 204—History and Principles of Physical Education and Athletics -----	3	P. E. 206—Organization and Administration of Physical Education and Athletics -----	2

The following courses are suggested to meet the minimum of 24 semester hours required by the State Department of Education for a teaching minor in physical education and athletics:

	Hours
1. Principles and Organization -----	5
MEN AND WOMEN	
P. E. 204—History and Principles of Physical Education and Athletics (3). Prereq., Zool. 123 and junior or senior rank.	
P. E. 206—Organization and Administration of Physical Education and Athletics (2). Prereq., Zool. 123 and junior or senior rank.	
2. Theory and Practice -----	4
MEN	
P. E. 6—Physical Activities (2)	P. E. 4—Intermediate Swimming (1)
P. E. 7—Physical Activities (2)	P. E. 6—Elementary Tap Dancing (1)
P. E. 119—Physical Activities (2)	P. E. 7-8—Modern Dance (2)
P. E. 120—Physical Activities (2)	P. E. 15-16—Folk and National Dancing (2)
WOMEN	
P. E. 113—Hiking (1)	
P. E. 121, 122—Physical Activities (2-6)	
P. E. 131—Mass Games (1)	
3. Theory and Coaching -----	4
MEN	
Ed. 167e—Athletic Coaching (1-3)	Ed. 167a—Coaching Methods (2)
P. E. 181—Intramural Sports (2)	Ed. 167b—Coaching Methods (2)
Ed. 167f—Athletic Coaching (1-3)	
4. Health Education -----	6
MEN AND WOMEN	
P. E. 102—Personal and Community Health (3)	
Ed. 167h—Teaching of Health (3)	
5. Human Anatomy and Physiology -----	8

THE R.O.T.C. DIVISION

Ohio University maintains a Senior Division, Reserve Officers' Training Corps, consisting of two coequal departments:

THE DEPARTMENT OF AIR SCIENCE AND TACTICS**THE DEPARTMENT OF MILITARY SCIENCE AND TACTICS**

In 1935, the Board of Trustees entered into an agreement with the Government for the establishment of a voluntary ROTC unit which, during subsequent years, has been developed and expanded into the two coequal departments indicated above. The Division is controlled by a coordinator appointed by the President of the University. Each depart-

ment chairman is the senior line officer on duty in that department, and is referred to either as the Professor of Air Science and Tactics or the Professor of Military Science and Tactics.

Each department offers a two-year basic course with specialization during the second year, and a two-year advanced course. Enrollment in either course is elective. However, under the terms of the agreement with the Government, the two-year course established and maintained as a minimum requirement, when entered upon by any student, becomes a prerequisite for graduation, unless the student is relieved of this obligation either by the Secretary of the Army or the Air Force.

Students electing ROTC training are required to register in either the Department of Air Science and Tactics or the Department of Military Science and Tactics. Such students must be physically qualified male citizens of the United States, not less than 14 years of age, and must not have reached 23 years of age at the time of initial enrollment in the basic course, except that an age limit of 25 will apply to veterans of World War II enrolling in colleges prior to January 1, 1951. If, at the close of the first year, the student desires to specialize in a department other than the one in which he is registered, the change may be effected by consulting with the head of his department—either the PAS&T or the PMS&T. During the second year of the basic course students specialize in either Air Force Administration, Air Force Communications, Infantry, or Quartermaster courses.

Graduates of the basic course are eligible to apply for the advanced course, specializing in that department for which their specialized basic course training has fitted them. A student who has successfully completed the advanced course and is recommended by the President of Ohio University, and either the PAS&T or the PMS&T, is commissioned a second lieutenant in the U. S. Air Force Reserve, or in the Officers' Reserve Corps of the Army of the United States.

Students who have successfully completed the first year of the advanced course are eligible for appointment by the President of the University, upon the recommendation of either the PAS&T or the PMS&T, as Distinguished Military Students, provided they have shown evidence of outstanding achievement in scholarship or extracurricular activities. Distinguished military students are eligible to apply for commissions in the Regular Air Force or the Regular Army, and will be so appointed on the date of graduation from the University—provided they have maintained their standard of achievement and have been selected for appointment by the appropriate Federal authority. Under the provisions of the Air Force and Army Field Forces civil school program, these commissioned graduates may apply for graduate study in specialized fields such as automotive engineering, electronics, meteorology, nuclear physics, business administration, economics, educational administration, international relations, journalism, personnel administration, public administration, and psychology. These specialized studies are pursued at Government expense by the student officer in residence at a distinguished and eminently qualified institution, and lead to the master's degree, or in exceptional cases, the degree of Doctor of Philosophy.

Regardless of appointment, all distinguished military students who have maintained the recognized standard of achievement will be appointed distinguished military graduates on the date of graduation.

Men who have had one year or more of active service in either the Army, Navy, Air Force, Marine Corps, or Coast Guard are also eligible to apply for admission to the advanced course. Students, certified as having completed military instruction in a secondary school maintaining a Senior Division, ROTC, will not receive college credit for these courses but are eligible to apply for admission to the advanced course. Selection of applicants to the advanced course is made by the President of the University and either the PAS&T or PMS&T. Selection is limited to citizens of the United States who are not less than 14 years of age, have not reached 27 years of age at the time of initial enrollment in the advanced course, and who are physically qualified under standards prescribed by the Departments of the Air Force and the Army. The total number of advanced students enrolled is limited further by quotas established annually by the Departments of the Air Force and the Army.

Students entering the advanced course receive without cost a complete officer-type uniform. Commutation of rations (present rate \$0.90 per day) will be paid monthly until completion of the course, except during the period of attendance at summer camp when the student will receive pay (amounting to \$75 per month) and all other allowances. The amount of commutation and pay at camp may vary from year to year to meet legislative requirements. These allowances are in addition to benefits received by the veteran under the "G.I Bill of Rights."

Textbooks, training equipment and a complete uniform to include shoes, socks, shirts, raincoat and overcoat are issued to all ROTC students without cost. These articles remain the property of the United States and must be returned. Each basic and advanced student is required to make a deposit of \$20, returnable upon presentation of a certificate of clearance from the military property custodian.

THE UNIVERSITY EXTENSION DIVISION

The University Extension Division offers work in the form of extension classes and correspondence study.

EXTENSION CLASSES. An instructor will be sent to a community once a week for an extension class provided a group of persons has agreed upon a course. The size of the group necessary depends upon the distance from the campus. The number and length of class periods are determined by the amount of credit allowed for the course. The University provides the regular instructor of the course or a member of the department in which the course is offered.

CLASSES FOR COLLEGE FRESHMEN. The Extension Division will offer a program of evening college classes at the freshman level in a community, provided the local board of education will apply for it, and provided

the student enrollment is sufficiently large to justify the effort. Such a program is designed to meet the needs of high school graduates who find it inconvenient to go away to college. Students who attend evening college classes full time for two semesters have the opportunity of earning sufficient credits to have sophomore rank at Ohio University.

CORRESPONDENCE STUDY. Correspondence study extends the privilege of university training even more widely than extension classes. A wide variety of subjects in over 30 departments is offered and is taught by members of the regular faculty. The courses appeal to any person who wishes to engage in systematic study during his spare time. Courses may be studied on a credit basis or a non-credit basis, and registration can be made at any time.

HIGH SCHOOL SUBJECTS. On July 1, 1942, the Extension Division began teaching high school subjects by mail to care for the needs of students unable to secure needed high school credits in another more desirable way. The application of an enrollee must be approved and signed by a high school principal.

ADMISSION. An extension class student or a correspondence student is not required to present an application for admission to the University. A student under 21 years of age cannot enroll in an extension class or in correspondence study for college credit unless he has fifteen units of high school work earned in an accredited secondary school. A person 21 years of age or over, however, who lacks the required high school units for college entrance may enroll for college credit in any course for which he has adequate ability.

To be admitted to Ohio University for correspondence instruction or for extension class instruction does not imply that the student will be admitted later for study in residence. A separate application must be filed with the Director of Admissions for admission to residence study.

VETERANS. Veterans of World War II may study in the Extension Division as class students or as correspondence students at government expense under the "G. I. Bill of Rights."

CREDIT. In extension classes and in correspondence study a student may earn as many as 40 semester hours toward the requirements for a bachelor's degree.

A graduate student may earn, under approved conditions, six semester hours of extension class credit to apply toward a master's degree. No credit toward a master's degree may be earned by the correspondence method.

Undergraduate students who are employed full time are limited to a registration of six semester hours each semester. Graduate students who are employed full time are limited to three semester hours each semester.

If a student is currently registered in residence at Ohio University, or at another college or university, he must have the written permission of his dean to enroll in correspondence study.

RECOGNITION. In 1931, Ohio University was admitted to membership in the National University Extension Association. This association is made up of over 70 of the recognized colleges and universities throughout the country which maintain divisions of university extension. The N. U. E. A. promotes standards and upholds them by strict procedures for the admission of colleges and universities to membership.

BLANKS. Applications for correspondence instruction may be secured from the Director of the Extension Division. Registration blanks for extension class instruction may be obtained from the instructor when the class is organized.

Persons interested in any of the opportunities afforded by the Extension Division may obtain additional information by writing to the Director of University Extension, Ohio University, Athens, Ohio.

THE SUMMER SCHOOL

The 1950 Summer School will consist of two sessions: an eight-week session and a post summer session.

The eight-week session will open on June 19 and close with commencement exercises on August 12. The post-summer session will open on August 14. Most courses in the post session will run for three weeks and carry three hours credit. However, in some fields, a student may earn from one to six hours credit by staying in school for a comparable number of weeks.

Courses will be offered in all phases of the regular program of the University during the eight-week session with increased offerings on the graduate level in many fields. Courses in sufficient demand will be offered in the post summer session.

Registration fees for the two summer sessions will be found listed on pages 58 and 59.

A special bulletin covering the offerings of the Summer School is available and may be secured by sending a request to the Director of the Summer School, Ohio University, Athens, Ohio.

The following special features, a full description of which will be found in the Summer School Bulletin, will form a part of the 1950 Summer School program:

CONFERENCE IN ELEMENTARY EDUCATION—June 12-17. A workshop-type conference for elementary school teachers. Members will help plan the program and determine its contents. This and the following education conferences are under the sponsorship of the College of Education. Fees: conference, \$6; room in Bryan Hall, \$1 per night.

CONFERENCE FOR ELEMENTARY PRINCIPALS—June 12-17. A conference in which elementary school principals will be given opportunities to meet and help solve practical problems faced in the administration of their schools. This conference will run concurrently with the one for elementary teachers and general sessions will be held in common. Fees: conference, \$6; room in Bryan Hall, \$1 per night.

MUSIC CLINIC—WORKSHOP—June 18-July 2. A two-week course in band and chorus, sponsored by the School of Music, for boys and girls between the ages of 12-19 interested in vocal and instrumental music, and for the professional stimulations and growth of prospective and in-service music teachers. Fees: laboratory, \$11; recreation, \$1.50; board and room, \$25.

HIGH SCHOOL PUBLICATIONS WORKSHOP—June 19-24. A conference, sponsored by the School of Journalism, designed for staff members of high school publications and their faculty advisers. The workshop will be of special interest to: (1) editors and advisers of yearbooks; (2) editors and advisers of newspapers; and (3) students and teachers interested in the business phases of yearbooks and newspapers. Fees: laboratory, for high school students, \$5 (no fee for advisers); board and room, \$11.50.

SPECIAL PAINTING CLASSES—June 26-July 7. Charles E. Burchfield, a prominent American artist, will be guest teacher in advanced painting during this two-week period. Students may enroll for this period with or without academic credit. Fees: laboratory (for high school students—no fee for administrators), \$5; board and room, \$11.50. Registration fee: for students not seeking credit, \$12.50; for students seeking credit, \$12.50 per credit hour. Board and room in university residence hall, \$40.

OHIO BOOKMENS' CLUB DISPLAY—June 29-30. Representatives of the Ohio Bookmens' Club will be on campus to display textbooks, illustrative materials, and school supplies. No fee.

CONFERENCE ON EDUCATIONAL ADMINISTRATION—June 30. Discussion of the fifth annual conference for school administrators will deal with cooperative planning for educational needs—in the field of administration and in the field of school guidance programs. Those desiring overnight accommodations may secure them in Bryan Hall at a charge of \$1 per night.

CONFERENCE IN SECONDARY EDUCATION—June 30. A conference for secondary school teachers and principals to be held in conjunction with the conference on educational administration. The conference will be devoted to high school guidance programs.

OHIO VALLEY OIL AND WATER COLOR SHOW—July 1-31. An exhibition held annually at Ohio University and confined to original works in oil and water colors by artists living in Ohio, Kentucky, Pennsylvania, West Virginia, Indiana, and Illinois. A sum of \$500 is available for award in prizes and purchases.

STATE DEPARTMENT OF EDUCATION OFFICIALS' CONFERENCE—July 12. Certification and other matters of interest to students preparing to teach, teachers in-service, and public school administration will be discussed by the Supervisor of Teacher Education and Certification of the State Department of Education and other state department officials.

Special announcements dealing with each of the foregoing conferences will be issued to interested persons upon request.

THE BRANCHES

Through its three branches, at Chillicothe, Portsmouth, and Zanesville, Ohio University continues to extend educational opportunities in Southeastern Ohio. Designed as an emergency measure to help accommodate the unprecedented number of applicants following the close of World War II, the Branches are now being continued on a provisional basis.

In addition to the work normally offered on the freshman and sophomore levels in the Branches, Ohio University has offered advanced courses to adult groups in the community who were seeking "refresher" courses or courses leading to professional advancement—based on (a) sufficient enrollment in each branch course to justify its inclusion in the schedule, and (b) the availability of qualified instructors.

All students regularly enrolled in the three branches are considered to be "regular" students of Ohio University. Full residence credit is granted for the successful completion of courses on the freshman and sophomore level.

Work done at the Branches is on the college level, and the same quality of scholastic performance is required of students as on the main campus. Approximately sixty per cent of the instructors for the Branches are drawn from the resident staff members of Ohio University; the other forty per cent are carefully selected on a part-time basis from leading industries, the professions, and the better qualified personnel of local high school facilities. Ohio University deans and faculty members outline and supervise all branch courses and faculty.

In the four years that these branches have been in operation, they have been continually adjudged educationally sound, with a scholastic record comparable to that on the main campus at Athens.

Branch classes are smaller in general than similar classes on the main campus. These smaller classes, which are comparable in size to those of prewar days, lend themselves to more individualized instruction. Student counseling, convocations, social programs, and, to a limited extent, athletics, are a part of the general program at all of the branches.

Classes are held in the local high school classrooms, laboratories, and gymnasiums. They are scheduled in the late afternoon and evenings to avoid conflict with high school classes.

Course work in the Branches is normally limited to those subjects ordinarily taught in accredited colleges during the freshman and sophomore years. However, it is impossible for Ohio University to offer branch work in certain technical fields where special apparatus is required beyond the freshman level.

The schedule of classes for the freshman year is selected to fulfill the University College requirements as well as to satisfy degree requirements for the College of Applied Science, the College of Arts and Sciences, the College of Commerce, the College of Education, and the College of Fine Arts.

Courses are offered in:

Botany	Geology	Physical Education
Chemistry	German	Physics
Engineering Drawing	Government	Psychology
Commerce	History	Romance Languages
Education	Mathematics	Sociology
English	Philosophy	Zoology
Fine Arts		

Work in the College of Arts and Sciences and in the College of Commerce is continued through the sophomore year. The offerings include courses in chemistry, commerce, education, English, fine arts, history, mathematics, philosophy, physical education, psychology, and sociology.

Students enrolled in the Branches may transfer to the Athens campus at a normal break in the school calendar if: (a) facilities are available in Athens, (b) the student's scholastic record is such as to make it advisable, (c) the student's curriculum requirements cannot be met in the branches.

A student who presents residence work at an Ohio University branch toward the residence requirements is nevertheless required to spend his last 15 weeks of residence on the Athens campus with the completion of a minimum of 15 semester hours.

The entrance requirements for these branches are the same as those for the Ohio University at Athens. Both veterans and non-veterans are admitted. A veteran will enjoy all the advantages of the "G I. Bill" during the period of his eligibility.

Application for admission blanks and a special bulletin on the Branches may be secured from the Director of Admissions and University Examiner, Ohio University, Athens, Ohio; from Prof. Albert C. Gubitz, Director of Off-Campus Relations, Ohio University; or from the assistant directors of the Branches. The assistant director at Chillicothe is David W. Wilson; at Portsmouth, Ralph Elliott; and at Zanesville, Ellis B. Miracle.

COURSES OF INSTRUCTION

**Course offerings of the University
grouped and listed alphabetically
according to departments**

COURSES OF INSTRUCTION

EXPLANATION

CATALOG NUMBER. The catalog number indicates the student classification for which the course is designed. The numbers are grouped as follows:

- 1- 99 for University College students
- 100-199 for undergraduate students
- 200-299 for advanced undergraduate and graduate students. The 200-299 courses are not open to sophomores even though they have fulfilled the prerequisites for them.
- 300-399 for graduate students

In general, an odd number indicates the first semester of a two-semester course; an even number, the second semester. An exception occurs in the numbers used for the teaching techniques courses.

Two numbers at the beginning of a course indicate a two-semester or year course. A *hyphen* between the numbers indicates that the course is a continuous course; that is, the first semester course is a prerequisite for the second semester. A *comma* between the numbers indicates that although the course is a two-semester course, the first semester course is not a prerequisite for the second semester.

CREDIT. Credit for a course is indicated by the number or numbers in parentheses following the course title, and, in case of a year course, is shown for each semester. In a semester course it may be expressed thus: (3), (1 to 3), or (2 or 3); in a year course, (3-3), (1 to 3—1 to 3), or (2 or 3—2 or 3).

A course with one semester hour credit (1) is the equivalent of one recitation or two or more laboratory periods a week throughout a semester.

In a course carrying variable credit the credit may be expressed thus, (1 to 4), indicating that one hour is the minimum and four hours the maximum amount of credit allowed for the course in one semester. A student may enroll for a course with a variable credit any number of times and for any number of semester hours, within the semester limit, provided the total registration for the course does not exceed the maximum credit indicated in the course description.

Course prerequisites are indicated at the end of course descriptions following the abbreviation, "Prereq."

INSTRUCTORS. The instructors in a department are arranged according to priority of service within the respective ranks.

FEES. When a course requires a fee, the amount is stated in the description of the course.

A Schedule of Classes is published each semester showing the courses that are offered, the time of meetings, the room numbers, and the instructors.

ACCOUNTING

Professors Ray (chairman), Beckert
Associate Professor Fenzel
Assistant Professor Via
Instructors Broman, Carlson

75-76. ELEMENTARY ACCOUNTING

(3-3) Ray, Beckert, Fenzel, Via, Broman, Carlson

The fundamental principles of accounting theory and practice as they affect corporations, partnerships, and proprietorships. The entire cycle of bookkeeping procedure. Ledger organization, expense controls, controlling accounts, and cost records with a discussion of exceptions and alternative methods constitute the work in Acct. 76.

125-126. INTERMEDIATE ACCOUNTING

(3-3) Beckert, Fenzel, Broman

Preparation and analysis of accounting statements; special problems in accounting for current, fixed, and intangible assets, for liabilities, and for corporate net worth; funds and reserves; investments; and intermediate partnership problems. Prereq., 76.

161b. TEACHING OF BOOKKEEPING

(2) Beckert

(Same as Ed. 161b) Prereq., 125.

175. COST ACCOUNTING

(3) Ray

Manufacturing cost determination under the job-order and process systems. Prereq., 125.

205-206. ADVANCED ACCOUNTING

(3-3) Ray, Carlson

Problems peculiar to partnerships, receiverships, fiduciaries, installment sales, consignments, insurance, brokers, estates and trusts, and branches; fund accounting; correction of errors; consolidations, mergers, and financing; and consolidated statements. Prereq., 126.

224. STANDARD COSTS AND BUDGETS

(3) Ray

The establishment of cost standards, preparation of budgets, and analysis of cost variances. Prereq., 175.

243. FEDERAL INCOME TAX ACCOUNTING

(4) Ray

A study of the current Internal Revenue Code and its application to Federal income taxes; withholding; and administrative procedure. The student will apply the provisions of the Code and the Regulations to hypothetical cases as well as prepare tax returns for individuals, partnerships, and corporations. Prereq., 125.

255. AUDITING PRINCIPLES AND PRACTICE

(5) Beckert

Purposes and scope of audits and examinations; audit principles and procedure; application of audit principles to practice material based on actual audit; and audit reports and certificates. Prereq., 126 and 175.

278. C. P. A. PROBLEMS

(3) Ray

The accounting profession; C. P. A. coaching; analysis, interpretation, and solution of problems selected from examinations given by various state boards of accountancy. Prereq., 255.

281. RESEARCH IN ACCOUNTING

(2 to 8) The Staff

Prereq., 175, 206 and permission.

391. SEMINAR IN ACCOUNTING (2 to 4) The Staff
 Maximum credit in course, 10 hrs. Prereq., 15 hrs. accounting and permission.

395. THESIS (1 to 8) The Staff
 Prereq., permission.

ADVERTISING

Professor Krauskopf (chairman)
 Assistant Professor Turnbull
 Instructor McVey

155. ADVERTISING PRINCIPLES (3) Krauskopf, Turnbull, McVey
 A survey of advertising which considers its place in the field of marketing and its fundamental principles as developed in special procedures relating to copy, mechanical production, media, testing and agency work. Prereq., Mkt. 155 or permission.

186. RETAIL ADVERTISING (3) Krauskopf
 The principles of advertising as related to the needs of retailers. Prereq., 155.

232. COPY WRITING (2) Turnbull
 The elementary essentials of copy developed by the study of current theory and analysis of tested examples. Considerable constructive work is required. Prereq., 155 and Ec. 102.

276. ADVERTISING PROBLEMS (3) Krauskopf
 A logical sequel to Advt. 155. It emphasizes administrative problems and the coordination of advertising with other marketing activities. Prereq., 155.

281. RESEARCH IN ADVERTISING (2 to 8) The Staff
 Prereq., 18 hrs. commerce including 5 hrs. advertising and permission.

391. SEMINAR IN ADVERTISING (2 to 4) The Staff
 Maximum credit in course, 10 hrs. Prereq., 18 hrs. commerce, including 5 hrs. advertising and permission.

395. THESIS (1 to 8) The Staff
 Prereq., permission.
 Additional courses:
 Psych. 6—Psychology of Advertising and Selling
 Jour. 146—Typography, Mechanics, and Make-up
 Jour. 177—Newspaper Advertising Practice
 Jour. 227—Public Relations Techniques
 Jour. 228—Public Relations
 Jour. 247—Newspaper Advertising and Layout
 Jour. 248—Advertising Production
 Radio 209—Radio Advertising
 Design 147-148—Advertising Layout
 Design 217-218—Advertising and Industrial Styling

AGRICULTURE

Professor Wiggin (chairman)
Instructor Burt
Acting Instructor Straight

Students desiring training in agriculture may choose any one of three curricula or may elect a teaching major. (See page 111.)

1. GENERAL AGRICULTURE

(3) Wiggin

Planned to meet the needs of those preparing to teach agriculture and of those interested in the practical applications of the problems of general agriculture. 2 lec. and 2 lab. Fee, \$3.

3. FORESTRY

(3) Straight

The identification of trees and woods. A study of reforestation and conservation, and of the common forest practices as they apply to the farm woodlots of Southeastern Ohio. 2 lec. and 2 lab. Fee, \$3.

4. SILVICULTURE

(3) Wiggin

A study of the factors determining the character and form of forest vegetation. The development of forest types. Cultural and forest management. 2 lec. and 2 lab. Fee, \$3.

102. VEGETABLE GARDENING

(3) Wiggin

Classification, description, use, culture, grading, storing, and marketing of vegetable crops. 2 lec. and 2 lab. Fee, \$3.

103. FRUIT GROWING

(3) Wiggin

The selection of an orchard location and the study of propagation, planting, fruit-setting, nutrition, thinning, disease and insect control, harvesting, grading, judging, storing, and marketing of tree fruits. 2 lec. and 2 lab. Fee, \$3.

104. SMALL FRUITS

(3) Straight

A study of fruits other than tree fruits and berries grown in Ohio. 2 lec. and 2 lab. Fee, \$3.

109. LANDSCAPE GARDENING

(3) Wiggin

The principles of landscape gardening as applied to home grounds, civic improvement, and the culture of lawns, ornamental flowers, and shrubs. 2 lec. and 2 lab. Fee, \$3.

110. NURSERY PRACTICES

(3) Wiggin

The propagation of trees and ornamental plants commonly grown in nurseries. Transplanting and the culture of nursery stock to setting age. 2 lec. and 2 lab. Fee, \$3.

115. SOILS AND FERTILIZERS

(3) Burt

The origin, types, physical properties, and distribution of soils, and their relation to crop production. Stable manure, green manure, and fertilizers as used in the maintenance of soil fertility. 2 lec. and 2 lab. Fee, \$3.

116. FIELD CROPS

(3) Burt

A study of the common grain, cereal, forage and pasture crops grown in Ohio. 2 lec. and 2 lab. Fee, \$3.

117. SOIL CONSERVATION

(3) Straight

A study of the common practices in soil conservation. 2 lec. and 2 lab. Prereq., 115, 116, or permission. Fee, \$3.

121. TYPES AND BREEDS OF FARM ANIMALS

(3) Burt

A study of types and breeds of farm animals: their history, development, breeding, handling, and general management. Principles of judging. 2 lec. and 2 lab. Fee, \$3.

124. GENERAL DAIRYING

(3) Wiggin

The fundamentals of milk production, handling, marketing, and the manufacture of products made from milk. 2 lec. and 2 lab. Fee, \$3.

125. ANIMAL NUTRITION

(3) The Staff

A study of the basic principles of nutrition; a study of feeds and their use in balancing rations for farm animals.

127. TYPES, BREEDS, AND MANAGEMENT OF POULTRY

(3) Wiggin

The origin and development of types and breeds, the general care and management of poultry, incubation, and the marketing of poultry products. 2 lec. and 2 lab. Fee, \$3.

131, 132. FLORICULTURE AND GREENHOUSE MANAGEMENT (2, 2)

Wiggin

A study of important cut-flower and pot-plant crops grown in greenhouses; the construction and management of greenhouses; flower store management and floral designing. 2 lec. and 2 lab. Fee, \$2 a semester.

135. FARM MANAGEMENT

(3) Burt

The application of agricultural technology and economic information to the securing of maximum income from a farm. The course includes a study of securing a farm, planning the cropping program, selecting the livestock enterprises, selecting power and equipment, securing the necessary labor, and marketing the products of the farm. Prereq., 115, 116, 117, or permission.

143. PLANT AND ANIMAL BREEDING

(3) Wiggin

The practical application of genetics to livestock and crop improvement including selection, inbreeding, crossbreeding, hybridization, pedigree analysis, progeny tests, and other practical breeding programs.

168a. METHODS IN VOCATIONAL AGRICULTURE

(3) Wiggin

(Same as Ed. 168a.) A consideration of aims and materials suitable for agricultural instruction in schools; equipment and the organization of laboratories. Prereq., 8 hrs. or permission.

170. ORGANIZATION AND MANAGEMENT IN VOCATIONAL AGRICULTURE

(3) The Staff

The purpose, structure, and administrative organization of vocational agriculture schools, and principles and practices in classroom management. Prereq., permission.

201-202. FARM PRACTICES

(3-3) Wiggin and Staff

Required of all seniors. One semester's work should be taken during the second semester. The other semester's work should be taken during the summer session. If a student is unable to attend a summer session, proof of having done practical work on a farm for at least one summer vacation will be required for graduation. 1 lec. and 6 lab. Prereq., 1, 116, 121, or permission.

205. CONSERVATION TEACHER TRAINING IN AGRICULTURE

(3) Wiggin, Stright

A survey course in soil and forest conservation, field crop management, and land usage from an agricultural viewpoint. Suitable for school teachers and those who wish a general training in agricultural conservation principles. 2 lec. and 2 lab. Fee, \$3.

222. AGRICULTURAL PROBLEMS

(3 to 5) The Staff

Designed to train the student in some important advanced laboratory methods and research problems encountered in the agricultural field, with an accompanying survey of available literature. 1 lec. and 4-8 lab. Prereq., permission.

228. PRINCIPLES OF TEACHING VOCATIONAL AGRICULTURE

(3) Staff Member

(Same as Ed. 228) Basic principles and processes in learning and teaching vocational agriculture. Prereq., with Ed. 182.

281. RESEARCH IN AGRICULTURE

(2 to 5) The Staff

Prereq., permission. Maximum credit in course, 10 hrs.

395. THESIS

(4 to 8) The Staff

Prereq., permission.

ARCHAEOLOGY AND ANTIQUITIES

A major or a minor may be completed in this field by joining the courses described here with others selected from the list of "additional courses" which appears below.

101. INTRODUCTION TO ARCHAEOLOGY

(3) Hill

The history of the development of archaeology from its earlier stages to its present status of dignity and scientific method. Methods and techniques of archaeology, its aims and purposes, the general types of archaeological work and excavation with emphasis on some of the more important sites.

202. THE ARCHAEOLOGY OF THE MEDITERRANEAN AREA

(3) Hill

Designed to provide a comprehensive appreciation and understanding of the archaeological activities in this area. The archaeology of Palestine and Egypt, with emphasis on the Minoan (Cretan) and Mycenaean civilization. The archaeology of Greece and the Aegean Islands, and to a lesser extent the archaeological remains of the Roman period. Prereq., 11 hrs. foreign language or 8 hrs. history (or art history) and antiquities.

240. SPECIAL WORK IN ARCHAEOLOGY (2 to 4 a semester in any field) Hill
Special study in selected phases and types of archaeology, such as the Biblical, early eastern, classical, and the more prominent cultures of Central and South America. Maximum credit in course, 12 hrs. Pre-req., 202.

Additional courses:

Ed. 250—The History of Education. Education among primitive peoples and on through ancient (especially classical), medieval, and modern times. See "Education."

Eng. 120—Mythology in English and American Literature. A study of allusions to Classical, Teutonic, and Scandinavian mythology found in English and American literature. See "English."

F. A. 121—History of Painting and Sculpture.* Art from the earliest times to the Renaissance, including Egyptian, Greek, Roman, and Byzantine periods. See "Fine Arts."

F. A. 175—History of Architecture. From prehistoric beginnings through the development of the building cultures and the growth and spread of architectural types to the Renaissance. See "Fine Arts."

Geol. 126-127—Historical Geology. History of the earth from its beginning with emphasis on the origin of forms of life and their development. See "Geography and Geology."

Geol. 240—Paleontology.* A study of invertebrate fossils including larger forms of ancient (extinct and living) animal life. See "Geography and Geology."

Gk. 14—Greek Epic in English. Ancient Greek epic in English with particular reference to style, content, and influence on later literature. See "Classical Languages."

Gk. 55, 56—Contributions of Greek Civilization. Specific phases of ancient Greek civilization and their contributions to our own. See "Classical Languages."

Gk. 211—Greek Drama in English. The dramatic literature of the ancient Greeks and the evolution of the theater. See "Classical Languages."

Hist. 115—Ancient History. Beginning with the historic backgrounds, a study of the ancient Egyptian, Greek, and Roman civilizations. See "History."

Lat. 229—Development of Roman Culture. Beginning with the archaeological evidence of prehistoric civilization in Italy it traces the stages and influences in the growth of Roman culture. See "Classical Languages."

*This and other courses starred are more specifically archaeological.

Lat. 231—The Life of the Romans.* Ancient Roman life with emphasis on the evidence from archaeology and antiquities. See "Classical Languages."

Phil. 201—History of Ideas: Ancient and Medieval. From the beginnings of philosophical thought through the great philosophers of ancient times to the end of the medieval period. See "Philosophy."

Soc. 125—Social Anthropology.* Origin and development of our prehistoric ancestors from earliest times to Egyptian civilization. See "Sociology."

ARCHITECTURE

Associate Professor Denison

Visiting Professor Frost

Acting Instructor Grindereng

55. FUNDAMENTALS OF ARCHITECTURE (3) Denison, Frost, Grindereng

The nature of architecture. Progressive drafting room exercises. Drafting, sketching, rendering, and elementary design. 1 lec. and 4 lab.

56. FUNDAMENTALS OF ARCHITECTURE (3) Denison, Frost

The principles of architectural design. A continuation of the drafting room exercises of 55. Design of small complete buildings. 1 lec. and 4 lab. Prereq., 55.

155-156. ARCHITECTURAL DESIGN (5-5) Denison

The planning and the theory of architecture. An expansion of the drafting room exercises of 55 and 56 dealing with the design of small industrial, commercial, and public buildings. 1 lec. and 6 lab. each semester. Prereq., 56.

157-158. FUNDAMENTALS OF RESIDENTIAL ARCHITECTURE (2-2) Denison

Lectures on the fundamentals of residential architecture and housing during the first semester. Four hours drafting room work during the second semester.

179. ARCHITECTURAL MATERIALS (3) Denison, Grindereng

A study of the materials used in buildings and the selection of these materials and equipment. 2 lec.

181-182. ARCHITECTURAL CONSTRUCTION (2-2) Denison, Grindereng

An introductory study of methods of architectural construction in wood, steel, concrete, and masonry as applied to residential and small commercial and public buildings. 2 lec. Prereq., 179 or permission.

183. ARCHITECTURAL EQUIPMENT (3) Denison

A study of the mechanical equipment used in buildings. The design of plumbing and heating systems. 2 lec.

184. WORKING DRAWINGS (2) Denison

Drafting room application of uses of materials and construction principles. 4 lab. Prereq., 182.

*This and other courses starred are more specifically archaeological.

185-186. ARCHITECTURAL PROBLEMS

(3-3) Frost

A continuation of 156 dealing more extensively with commercial and public buildings with emphasis on design and construction considerations. 6 lab. Prereq., 156, 182.

201. WORKSHOP IN ARCHITECTURE

(1 to 3) Denison

Supervised individual projects. Maximum credit in course, 6 hours. Prereq., senior majors.

Suggested courses:

- F. A. 121-122—History of Painting and Sculpture
- F. A. 175-176—History of Architecture
- Paint. 45—Methods in Representation
- Design 11—Basic Design
- Design 171-172—Interior Decoration
- Design 213—Advanced Interior Decoration

ART

Professors Mitchell, Way

Associate Professors Willis, Work

Assistant Professors Leonard, Calkin, C. L. Smith

Instructor Olpp

Acting Instructor Anderson

ART HISTORY**125. THE ARTS IN EVERYDAY LIFE**

(2) Way

Planned to help the student appreciate and select the best articles available for the home, costume, etc., according to their functional qualities.

157. APPRECIATION OF THE SPACE ARTS

(1) Way

Appreciative study of line, mass, color, and form through design, architecture, sculpture, and painting.

203. ITALIAN RENAISSANCE PAINTING

(3) Olpp

The development of painting in Italy during the Renaissance from the early Florentine and Sienese schools through the fifteenth and sixteenth centuries in central and northern Italy. Prereq., 8 hrs. including F. A. 122.

271. LATIN-AMERICAN ART

(3) Olpp

A survey of the development of architecture, sculpture, and painting in the Hispanic Southwest, Mexico, Central America, the Caribbean area, and South America from the sixteenth century to the present. Prereq., F. A. 122 and 176.

390. SEMINAR IN HISTORY OF THE SPACE ARTS

(2 to 5) Olpp

Prereq., 18 hrs. including F. A. 122.

Additional courses:

- F. A. 121-122—History of Painting and Sculpture
- F. A. 175-176—History of Architecture

DESIGN

3. ELEMENTARY DESIGN FOR TEACHERS (2) Leonard
Problems involving elementary principles in design, color, and lettering. Planned for students who expect to major in elementary education. 1 lec. and 3 lab.

11. BASIC DESIGN (2) Work
The course deals with harmonious organization of lines and forms in terms of balanced forces in space. 2 lec. and 2 lab.

12. BASIC DESIGN (2) Work, Willis
Study of harmony and structural use of color. 2 lec. and 2 lab. Prereq., 11.

91. DESIGN AND COMPOSITION (2) Willis
Problems in design and composition with special emphasis on color. Planned for students who expect to major in home economics. 1 lec. and 3 lab.

102. APPLIED DESIGN (3) Willis
Principles applied to posters, decorative boxes, wall hangings, panels, and table decorations. 2 lec. and 4 lab. Prereq., 91.

113-114. LETTERING (3-3) Smith
A laboratory course in basic lettering in its relationship to typography. Practical application in the production of posters, book jackets, trade-marks. Experimentation with various media, including silk screen, airbrush, and scratchboard. 6 lab. Prereq., 11 and permission.

120. TEXTILE DESIGN (3) Way
All-over patterns with emphasis on principles. Problems in weaving. 2 lec. and 4 lab. Prereq., 12 or 102.

123. JEWELRY (2) Willis
Original designs executed in silver and copper. Maximum credit in course, 6 hrs. 1 lec. and 3 lab. Prereq., 12 or 102, and permission. Fee, \$2.

137-138. COSTUME DESIGN (2-2) Way
Design in relation to dress. Designing for individual characters. Adaptations of historic styles to modern costume. 1 lec. and 3 lab. Prereq., 12 and Paint. 28 or with Paint. 28.

140. DESIGN APPLIED TO MATERIALS (2) Leonard
A course for art majors planning to teach art in the elementary and secondary fields. It includes projects in bookbinding, puppetry, and other creative design problems applied to materials. 1 lec. and 3 lab. Prereq., 9 hrs.

147-148. ADVERTISING DESIGN (2-2) Smith
A laboratory course in designing magazine, newspaper, and direct mail layout. Emphasis on creative design and advertising production. 4 lab. Prereq., 11 and 113.

160c. PRACTICAL DESIGN WORKSHOP FOR ELEMENTARY TEACHERS

(1 to 3) Leonard

(Same as Ed. 160c) Problems in modeling, ceramics, bookbinding, lettering, painting, and other activities related to elementary school problems. Prereq., 3. Fee, \$3.

160h. TEACHING OF ART

(3) Way

(Same as Ed. 160h) Prereq., 20 hrs. as specified for certification.

171-172. INTERIOR DECORATION

(3-3) Way

A brief study of architectural details and historic styles of furniture as used in modern homes. Study of house plans, decorative treatments, and materials. 2 lec. and 4 lab. Prereq., 12 and permission.

201. WORKSHOP IN DESIGN

(1 to 3) Mitchell, The Staff

Students are assigned to projects for practical experience. Maximum credit in course, 6 hrs. 3-9 lab. Prereq., 8 hrs. and permission.

207. ADVANCED DESIGN

(3) Willis

Composition for decorative panels in different media with special emphasis on design. 2 lec. and 4 lab. Prereq., 114, or 8 hrs. and permission.

213. ADVANCED INTERIOR DECORATION

(3) Way

Floor plans and elevations. Perspective drawings rendered in color. Research is stressed and original adaptations are made from styles of important periods. Maximum credit in course, 12 hrs. 2 lec. and 4 lab. Prereq., 172.

217-218. ADVANCED ADVERTISING DESIGN

(3-3) Smith

Comprehensive problems in magazine, newspaper, direct mail, and display layout. 6 lab. Prereq., 148, Paint. 75, and Advt. 155.

221. ADVANCED COSTUME DESIGN

(2) Way

Application of principles to magazine illustration of dress design. Study of the details of costume. Page layouts, trousseaux. Maximum credit in course, 10 hrs. 1 lec. and 3 lab. Prereq., 12 hrs. including 138.

225. ADVANCED JEWELRY

(2) Willis

A continuation of 123. Maximum credit in course, 6 hrs. 1 lec. and 3 lab. Prereq., 12 hrs. including 123. Fee, \$2.

251-252. INDUSTRIAL DESIGN

(2-2) Smith

Practical study in the design and presentation of industrial products with emphasis on function, appearance, materials, models, specifications, and representations. 4 lab. Prereq., 12 hrs. including Sculp. 131, and permission.

281. RESEARCH IN DESIGN

(1 to 5) The Staff

3-15 lab. Prereq., 15 hrs. and permission.

391. SEMINAR IN DESIGN

(1 to 5) The Staff

Prereq., 18 hrs. and permission.

395. THESIS

(1 to 8) The Staff

Prereq., permission.

PAINTING AND DRAWING

28. FIGURE DRAWING (2) Calkin
A study of the human figure with emphasis on proportion and structure. Maximum credit in course, 6 hrs. 4 lab. Fee, \$4.

45-46. METHODS IN REPRESENTATION (2-2) Mitchell
Linear representation of form. Visual perspective with emphasis on theory. 2 lec. and 2 lab.

71. SKETCHING (2) Way
Quick sketches from life including action and still poses of figures and animals, out-of-door sketching, and contour drawing of objects. Maximum credit in course, 4 hrs. 1 lec. and 3 lab. Fee, \$2.

75. REPRESENTATION (3) Mitchell
Practice in methodical representation in light and shadows. Pencil crayon, charcoal, wash, pen, and dry brush. 1 lec. and 5 lab. Prereq., 46.

76. DEPTH (3) Mitchell
Methodical practice with color variations in depth. Indicated for those interested in painting. 1 lec. and 5 lab. Prereq., 75.

117. FORM AND COMPOSITION (3) Willis
The foundation principles of form as used in contemporary art in dark and light and color with emphasis on composition, form, and color harmony. 2 lec. and 4 lab. Prereq., 45 and Design 12.

118. WATER COLOR (3) Work
Experience in painting in the studio and out-of-doors. 2 lec. and 4 lab. Prereq., 8 hrs.

135, 136. CARICATURE (2, 2) Calkin
Application of principles of drawing toward commercial cartooning. 1 lec. and 3 lab. Prereq., 75 or permission.

205. PAINTING (2 or 3) Mitchell
Practical applications of theories and methods of representation in color mediums. Maximum credit in course, 10 hrs. 6-9 lab. Prereq., 76.

209-210. PRINTS (3-3) Work
Problems in monotypes, linoleum and wood blocks, Provincetown wood blocks, etching, aquatint, dry-point, lithography, and other related subjects. 2 lec. and 4 lab. Prereq., 12 hrs.

211. FORM IN MODERN PAINTING (2 or 3) Willis
Foundation principles in form developed in oil with emphasis on composition. 1 lec. and 3 lab. Prereq., 12 hrs., including 45 and 117, or permission.

215. ADVANCED FORM AND COMPOSITION (2) Willis
Advanced problems in modern composition. Maximum credit in course, 4 hrs. 4 lab. Prereq., 12 hrs. and permission.

219-220. ADVANCED WATER COLOR (2 or 3—2 or 3) Work
A study of current tendencies in painting. 1 lec. and 3-5 lab. Prereq., 118.

228. LIFE DRAWING (3) Calkin
Application of shading and color techniques to representation of the human figure. Maximum credit in course, 12 hrs. Prereq., 12 hrs., including 28, and permission. Fee, \$4.

241. ADVANCED PAINTING (2 or 3) Mitchell
Practical problems involving advanced techniques. Maximum credit in course, 10 hrs. 6-9 lab. Prereq., 205.

331. ADVANCED PICTORIAL COMPOSITION (3) Mitchell
Maximum credit in course, 12 hrs. 9 lab. Prereq., 20 hrs. and permission.

336. DECORATIVE COMPOSITION (3) Mitchell
Maximum credit in course, 12 hrs. 9 lab. Prereq., 20 hrs. and permission.

391. SEMINAR IN PAINTING (1 to 5) The staff
Prereq., 20 hrs. and permission.

395. THESIS (1 to 8) The Staff
Prereq., permission.

SCULPTURE AND CERAMICS

115-116. CERAMICS (3-3) Anderson
Basic ceramic processes including coil and slab building and production of one-piece moulds and tiles. Elements of glazing and decoration. Introduction to the chemistry of glazes. 1 lec. and 5 lab. Prereq., Design 11. Fee, \$5.

131. SCULPTURE (3) Anderson
Sculpturing techniques and study of form in clay, plastics, and wood. Maximum credit in course, 12 hrs. 6 lab. Prereq., Paint 28. Fee, \$5.

201. WORKSHOP IN PLASTIC DESIGN (2 or 3) Anderson
Supervised individual projects. Maximum credit in course, 6 hrs. Prereq., 9 hrs. and permission. Fee, \$5.

216. ADVANCED CERAMICS (3) Anderson
Study of ceramic processes and materials with emphasis on original design and adaptability to industrial production. Intensive study of clays and glazes. Mould making, jiggering, and slip casting. Decorative techniques. Maximum credit in course, 12 hrs. 6 lab. Prereq., 12 hrs., including 116, and permission. Fee, \$5.

ASTRONOMY

Associate Professor Goedcke

11. ELEMENTARY ASTRONOMY

(3) Goedcke

The motions of the celestial sphere and the principles of determination of time, latitude, and longitude from celestial observations. The distances, motions, and physical properties of the sun, moon, planets, comets, meteors, and meteorites. The principles of mathematics and physics needed in the course will be developed. 2 lec. and 2 lab. Prereq., Math. 3, or 1 yr. high school algebra and 1 yr. high school geometry. Fee, \$4.

12. ELEMENTARY ASTRONOMY

(3) Goedcke

The basic principles of astronomical spectroscopy are developed and applied to the study of the distances, motions, physical properties, and probable evolution of the stars, the nebulae, and the galaxies. The principles of mathematics and physics needed in the course will be developed as required. 2 lec. and 2 lab. Prereq., Math. 3, or 1 yr. high school algebra and 1 yr. high school geometry. Fee, \$4.

135. ELEMENTS OF NAVIGATION

(2) Goedcke

Solid geometry of the sphere, spherical trigonometry in so far as needed, elements of astronomy as needed, use of the Nautical Almanac, navigation instruments and their use, the line of position, and charts and maps. The emphasis is entirely upon celestial navigation. Opportunity for several observations of the celestial bodies for establishment of the local position is provided. Occasional extra meetings at appropriate times for observation are required in addition to the regular meetings. Pre-req., Math. 5.

ATHLETICS—See Physical Education and Athletics

BOTANY

Associate Professors Boetticher, Bickle (chairman)
Assistant Professors Vermillion, Wallace

The major requirement in botany for the A. B. degree is a minimum of 24 semester hours in approved departmental courses; for the B. S. degree, 30 semester hours. These courses must include Botany 1-2 and 10 additional hours which must include selections from each of the following three groups: 173 or 207; 205; and 107 or 117 or 215. At least half of the required hours in the major should be selected from courses numbered 200 or above.

Students with broad training in botany and related subjects may qualify for admission to professional schools which prepare men for the following vocations:

General administrative work in the United States Forest Service; Fish and Wildlife Service, National Park Service, Soil Conservation Service, and other federal and state agencies; cost analysis and the preparation and execution of forest-management plans for private timberland owners and operators; wildlife management and administration; technical and managerial work in the wood-using industries; research requiring specialized training.

Admission to professional schools is based on two to four years of training in which a preforestry program of studies is pursued. A pre-forestry curriculum as recommended by approved forestry schools is given on page 98. Students may qualify for the A.B. or B.S. degree while completing this course of study. Students interested in biological survey work or desiring to prepare for civil service examinations in a particular state, federal, or private botanical service or agency should consult with the department chairman before the close of the freshman year or earlier if possible.

The major requirement in botany for the B.S. in Education degree is given on page 126.

1-2. GENERAL BOTANY

(3-3) The Staff

A study of the structure and physiology of plants and of their applications to human welfare; followed by a survey of the groups of the plant kingdom, their life cycles, reproduction, genetics and fundamental interrelations with man and other animals. 2 lec. and 2 lab. Fee, \$5 a semester.

3-4. THE LIVING WORLD

(3-3) Wallace

An integrated course designed for the general student embracing the concepts of general biological principles as exhibited by living organisms. The emphasis is placed upon the dynamic interactions of man, other animals, and plants in their environment. The course is not open to majors in the biological sciences. 2 lec. and 2 lab. Prereq., for 4 is 3, or 1 or 2 and permission. Fee, \$5 a semester.

107. CLASSIFICATION OF PLANTS

(3) Boetticher

A study of the general principles of the systematic arrangement of plants including field and herbarium work with the local flora with special emphasis on the identification and keying of herbaceous higher plants. 2 lec. and 2 lab. Prereq., 2. Fee, \$5.

108. VEGETATION OF NORTH AMERICA

(2) Wallace

An illustrated lecture-demonstration course considering the extensive plant formations of the United States, Canada, and Alaska and their relations to the several environmental factors and to human welfare. Prereq., a year in chemistry, geology, or zoology.

109. PLANT GEOGRAPHY OF THE WORLD

(2) Bickle

An illustrated lecture-demonstration course considering the general features of the great plant formations of the world including the tropical selvas and monsoon forests, the deciduous forests, the taiga, the deserts, the tundra, etc., their mutual influence, their relations to environmental factors and the biota. Prereq., a year in chemistry, geology, or zoology.

111-112. ECONOMIC BOTANY

(2-2) Vermillion

A study of the origin, uses, and economic importance of plants and plant products, and the application of botany to modern industrial life. 1 lec. and 2 lab. Prereq., 2. Fee, \$4 a semester.

117. DENDROLOGY

(3) Bickle

A field and laboratory course in identification of native and introduced woody plants in both summer and winter aspects by use of keys and by examination of gross features of wood. 2 lec. and 2 lab. Prereq., 2. Fee, \$5.

168b. TEACHING OF BOTANY

(2) Bickle, Wallace

(Same as Ed. 168b) A review of the various methods now employed, followed by actual practice in lecturing, laboratory procedures, and field work. Prereq., 1 yr. botany or zoology. Offered second semester.

168g. TEACHING OF GENERAL SCIENCE

(2) Boetticher, Wallace

(Same as Ed. 168g) Practice in the construction of general science apparatus, and demonstrations of scientific laws through the utilization of common things near at hand. Also a review of science texts in current use. Prereq., 1 yr. of science.

172. PLANT ANATOMY

(3) Bickle

A course designed to embody a comprehensive study of the internal structure and development of the organs, tissues, and cells of the vascular plant body. 2 lec. and 2 lab. Prereq., 2. Fee, \$5.

173, 174. MORPHOLOGY AND LIFE HABITS OF THE FUNGI AND ALGAE

(4.4) Vermillion

A course dealing with the form and life habits of macroscopic and microscopic fungi, external and internal structures and reproduction, and a general survey of classes and their possible morphologic and phylogenetic relationships. The second semester constitutes a course dealing with the form, structure, classification, relationships, reproduction, and environmental relations of the algae. 2 lec. and 4 lab. Prereq., 2. Fee, \$5.

175. TAXONOMY OF THE NON-VASCULAR PLANTS

(3) Boetticher

A course dealing with the classification and phylogeny of the bryophytes, lichens, and higher fungi. 2 lec. and 2 lab. Prereq., 2. Fee, \$4.

203-204. PRINCIPLES OF PLANT ECOLOGY

(4.4) Boetticher

A course dealing with the biological studies of natural plant communities and their dynamics, with the cause and effect relation between the habitat on the one hand, and the organism and community on the other. 3 lec. and 2 lab. Prereq., 107 or 108 or 109. Fee, \$5 a semester.

205-206. PLANT PHYSIOLOGY

(4.4) Wallace

A course treating of the water relations of plants, absorption, diffusion, colloidal phenomena, plant nutrients, photosynthesis, transpiration, foods and translocation, plant enzymes, hormones, growth and tropisms, reproduction, and their correlation with development. 2 lec. and 4 lab. Prereq., 2 and a year of chemistry in high school or college. Fee, \$8 a semester.

**207, 208. MORPHOLOGY OF THE BRYOPHYTES AND
PTERIDOPHYTES AND SEED PLANTS**

(4.4) Bickle

A study of the internal and external form and structure and of the life histories of mosses, liverworts, ferns, and allied plants, giving a basis for discussion of relationships and the probable evolution of the

chief groups. The second semester is a continuation of the field of study opened by course 207, but may be taken independently. The course treats of higher plants, the gymnosperms and angiosperms, their form, structures, and life histories. 2 lec. and 4 lab. Prereq., 2. Fee, \$5.

209, 210. PLANT MICROTECHNIC

(3, 3) Boetticher

The killing, fixing, imbedding, sectioning, staining, and mounting of plant tissues, and the use of the camera lucida, calibration, and photomicrographic practices. 2 lec. and 2 lab. Prereq., 2. Fee, \$6 a semester.

211. PALEOBOTANY

(3) Bickle

A study of the fossil representatives of the greater plant groups and the sequence of fossil floras throughout geological time. Special attention is given to the fossil ferns and gymnosperms of the Paleozoic era. 2 lec. and 2 lab. Prereq., 2 and 3 hrs. geology and permission. Fee, \$5.

212. PALEOBOTANY

(3) Bickle

A continuation of the field of study opened in course 211. The emphasis is placed on the field-laboratory method of study of fossil plants employing the most modern methods of investigation. 1 lec. and 4 lab. Prereq., 2 and 6 hrs. geology. Fee, \$5.

215. TAXONOMY OF VASCULAR PLANTS

(3) Boetticher

A study of the systematics, nomenclature, and phylogeny of the ferns, fern allied plants, and gymnosperms, with special attention paid to their reproductive structures and general organography as applied to training in identification. 2 lec. and 2 lab. Prereq., 107 or 175. Fee, \$5.

216. TAXONOMY OF VASCULAR PLANTS

(3) Boetticher

A continuation of the field of study opened by course 215 offering training in the identification and classification of herbaceous and semi-woody monocots and dicots and the employment of modern herbarium methods for their preservation as historic herbaria. 2 lec. and 2 lab. Prereq., 107 or 117 or 215. Fee, \$5.

218. WOOD TECHNOLOGY

(3) Bickle

The structure, identification, properties and uses of North American woods, with special attention given to the microscopic structure of woods. 1 lec. and 3 lab. Prereq., 117 or 172. Fee, \$4.

220. BOTANICAL STUDIES

(2 or 4 in any of the following)

Semi-independent studies supervised by the instructor. May include interdepartmental studies under the combined supervision of more than one instructor. Maximum credit in course, 16 hrs. Prereq., 9 hrs., or 6 hrs. and 6 hrs. in chemistry, geology, or zoology. Fee, \$3.

- a. Morphology—studies of the fundamental plant form, structure, life cycles, and reproduction. Bickle, Vermillion.
- b. Physiological Botany—studies of the primary functions, processes, and growth phenomena of plants. Wallace.
- c. Ecological Botany—studies of the interrelations of plants to one another and to the environment, plant distribution, and the influence and significance of plant successions. Boetticher, Wallace.

- d. Taxonomy—studies in the principles, theories, and systems of plant classification and the phylogenetic relations of both higher and lower plants. *Boetticher*.
- e. Plant Anatomy—studies in the internal histology and cytology of plant organs, tissues, and cells. *Blickle*.
- f. Pathology—studies in the nature, prevention, cause and control of plant diseases. *Vermillion*.
- g. Economic Botany—origin, uses, and economic importance of plants and plant products, their application to human welfare and modern industrial life. *Vermillion*.
- h. Plant Genetics—studies of the mechanism of heredity in plants, genes, their transmission from generation to generation, and how they produce plant body characteristics. *Wallace*.
- i. Dendrology and Wood Technology—studies embracing the structure, identification, properties and uses of North American trees and woods, their occurrence and distribution. *Blickle*.
- j. Paleobotany—studies dealing with the fossil representatives of the greater plant groups, their importance and sequence throughout geological time. *Blickle*.

221-222. PLANT PATHOLOGY(3-3) *Vermillion*

A general course dealing with the nature, cause, and control of plant diseases. The various types of causal factors are studied in actual examples of the diseases they cause in plants. 2 lec. and 2 lab. Prereq., 2. Fee, \$5 a semester.

223. DISEASES OF VEGETABLE CROPS(2) *Vermillion*

A course considering the causes, controls, and characteristic symptoms of some of the more important field, storage, and market diseases of vegetable crops. 1 lec. and 2 lab. Prereq., 221. Fee, \$4.

224. FOREST PATHOLOGY(3) *Vermillion*

Principles and methods involved in the prevention and control of damage to forest by disease; survey of the important forest and shade tree diseases and their relation to forest management and forest utilization. 2 lec. and 2 lab. Prereq., 117 and Agr. 3. Fee, \$5.

281. RESEARCH PROBLEMS(1-4) *The Staff*

Independent problems of a research and semi-research nature in any of the several fields listed under Botanical Studies (Bot. 220 a-j). Maximum credit in course, 8 hrs. Prereq., 12 hrs. and permission.

385. RESEARCH IN BOTANY(2 to 8) *The Staff*

Research work leading to the fulfillment of thesis requirements. The work may be carried in any of the several fields listed under Botanical Studies (Bot. 220 a-j). Maximum credit in course, 8 hrs. Prereq., 20 hrs. and permission. Fee, \$3.

391. SEMINAR IN BOTANY(1 to 4) *The Staff*

Advanced study and original semi-research work. Prereq., 15 hrs. and permission.

BUSINESS LAW

Professor Dykstra (chairman)

155-156. BUSINESS LAW

(3-3) Dykstra

The principles of law involved in contracts, agency, sales, bailments, negotiable instruments, and corporations.

159. BUSINESS LAW

(3) Dykstra

An abridged course covering the topics considered in 155-156. It is designed primarily for those who wish to elect three hours of law and for those who must have three hours to meet requirements. It cannot be substituted to meet the six-hour requirement of College of Commerce students.

175. GOVERNMENT AND BUSINESS

(3) Dykstra

Statutes, and court decisions interpreting them, by which federal, state, and local governments control, regulate, and aid business. A study of federal control under the commerce clause, of state police powers, and of the anti-trust laws. Prereq., junior rank.

185. AVIATION LAW

(2) Dykstra

The study of federal and state aeronautical acts and leading court decisions affecting aviation. Legal problems encountered in the establishment and operation of airports and carriage by air; including taxation; insurance and workmen's compensation; the torts of trespass, nuisance, and negligence; contractual relationships; crimes; international conventions. Prereq., junior rank.

242. LAW OF REAL ESTATE

(2) Staff Member

Deeds, mortgages, leases, and other interests in real property, and the relationships between landlord and tenant. Prereq., 156.

281. RESEARCH IN LAW

(2 to 8) The Staff

A study of selected cases and current litigation in any field of law of particular interest to the student. Prereq., 18 hrs. commerce including 156 and permission.

CERAMICS—See Art**CHEMISTRY**

Professors Dunlap, Clippinger (chairman)

Associate Professors Gullum, Eblin

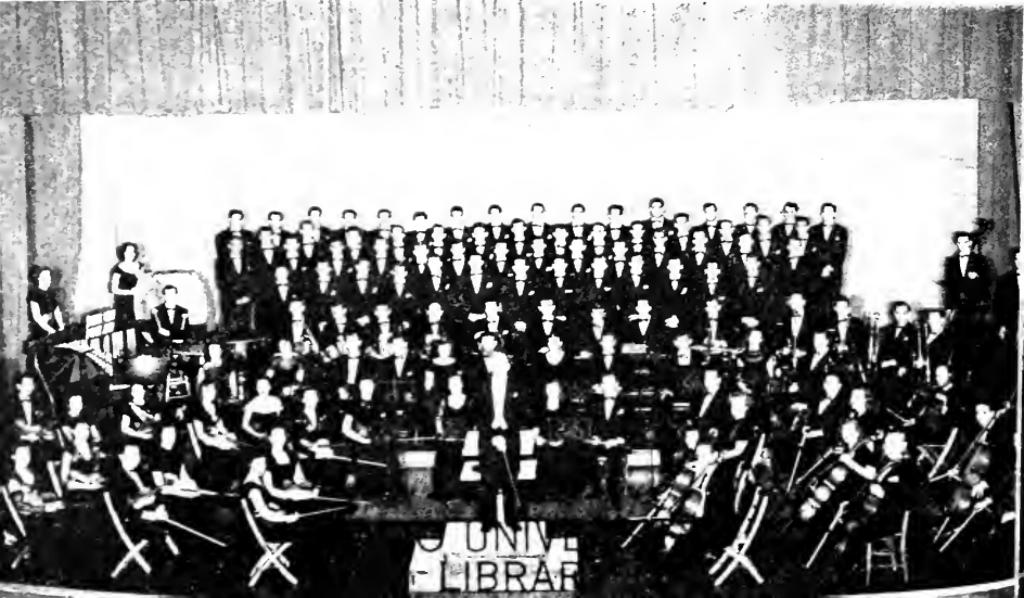
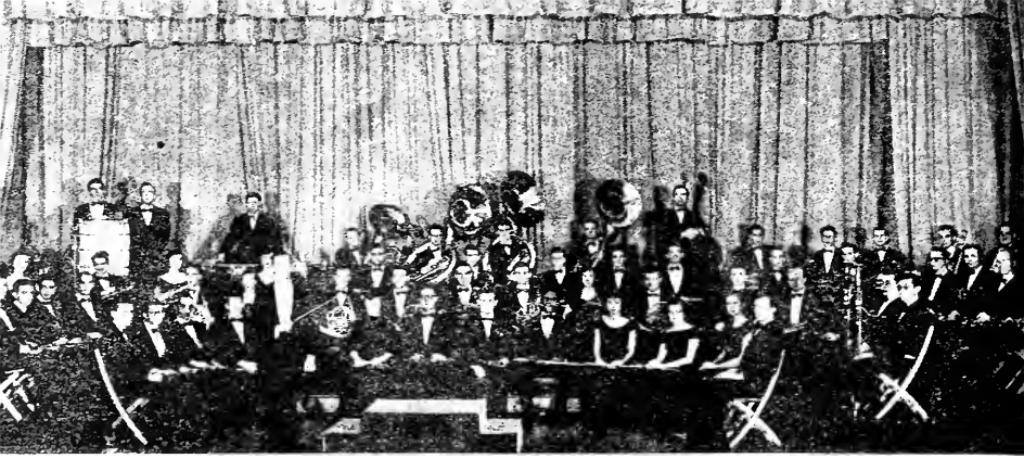
Assistant Professors Neher, Day

Instructors Hendrick, C. T. Anderson, Smallegan

The major requirement in chemistry for the A.B. degree is a minimum of 26 semester hours including Chem. 1-2 or 3-4; 105, 106; 107 or 109-110; 113 or 201-202, 117 or 203; 213-214 or chemistry electives above 200.

The major requirement in chemistry for the B.S. degree is a minimum of 38 semester hours including Chem. 1-2 or 3-4; 105, 106; 109-110; 201-202, 203; 213-214 and approved chemistry electives above 200.





Majors anticipating graduate study must register for French and German to satisfy the language requirement of graduate schools.

Students who plan to enter the field of chemical industry are advised to add the following to the above requirements: Chem. 204 and approved electives (14-17); Ec. 101-102; Geol. 125; Math. 118, 125; Phil. 109; Phys. 5, 6 or 113, 114 and approved electives.

For the requirements for the degree of B.S. in Chemistry, see page 97.

The major requirement in chemistry for the B.S. in Education degree is given on page 126.

1-2. GENERAL CHEMISTRY (4-4) Anderson, Gullum, Hendrick, Smallegan

A beginning course in chemistry for those who have had no previous training in the subject or those advised on basis of mathematics test. 3 lec. and 3 or 4 lab. Offered each semester. Fee, \$10 a semester.

3-4. GENERAL CHEMISTRY (4-4) Anderson, Day, Eblin, Hendrick, Neher

A course in general chemistry with laboratory work for those who have had high school chemistry and who make a satisfactory grade in the mathematics test. Laboratory in Chem. 4 is devoted to qualitative analysis. 3 lec. and 3 or 4 lab. Prereq., high school chemistry. Fee, \$10 a semester.

105, 106. QUALITATIVE ANALYSIS (3, 3) Gullum

The separation and detection of cations and anions. Chem. 106 continues with a complete qualitative analysis of simple substances and mixtures. 1 lec. and 6 lab. Prereq., for 105, 2 or 4; for 106, 105 or 4. Fee, \$10 a semester.

107. QUANTITATIVE ANALYSIS (4) Clippinger, Day

A one-semester course in analytical chemistry for students majoring in zoology. The laboratory and lecture work will include the practical, theoretical, and problem phases of analytical procedure. 2 lec. and 6 lab. Offered the second semester only. Prereq., 2 or 4. Fee, \$12.

109-110. QUANTITATIVE ANALYSIS (5-5) Clippinger

The problem side of analytical chemistry as well as the laboratory. The course teaches the rapidity and accuracy necessary to analytical work, the interpretation of results, and the exercise of care and integrity. Chem. 109 is primarily volumetric analysis. In Chem. 110 the following phases are considered: iodometry, volumetric precipitation, electrolytic and electrometric analysis, and gravimetric procedure. 3 lec. and 6 lab. Prereq., 4, 105 or permission. Fee, \$12 a semester.

113. ORGANIC CHEMISTRY (4) Day, Dunlap, Neher

A one-semester course covering fundamental reactions and practical applications. Adapted for students of home economics, medical technology, and pre dental courses. Offered both semesters. Prereq., 2 or 4.

117. ORGANIC CHEMISTRY LABORATORY (2) Anderson, Day, Dunlap, Neher

A one-semester laboratory course in organic preparations and reactions to accompany Chem. 113 or 201 for students of home economics, medical technology, premedical or pre dental courses. Offered the first semester only. 6 lab. Prereq., 113 or 201 or with 113 or 201. Fee, \$12.

168s. TEACHING OF CHEMISTRY AND LABORATORY PRACTICE (2) Anderson
(Same as Ed. 168s) Instruction and practice in laboratory teaching and supervision. 1 lec. and 3 lab. Prereq., permission.

201-202. ORGANIC CHEMISTRY (3-3) Day, Dunlap, Neher
A course for chemistry majors. Prereq., 107 or 109 or with 107 or 109.

203-204. ORGANIC CHEMISTRY LABORATORY

(2-2) Anderson, Day, Dunlap, Neher

Practical work in organic chemistry for chemistry majors. 6 lab. Prereq., 201 or with 201. Fee, \$12 a semester.

205. ADVANCED QUANTITATIVE ANALYSIS (3) Clippinger
Methods of instrumental analysis. Colorimetry, spectrophotometry, electrometry, and polarography. Prereq., 110 and permission. Fee, \$12.

209. ADVANCED ORGANIC CHEMISTRY (1 to 3) Day, Dunlap, Neher
Special topics in organic chemistry. Maximum credit in course, 9 hrs.

a. Alicyclic and Heterocyclic Compounds. Prereq., 202 and 204.

b. Physical Organic Chemistry. Prereq., 214.

Stereochemistry and theory of resonance.

c. High Polymers (Plastics). Prereq., 202 and 204.

All of the present-day plastic materials are considered, their commercial preparation, physical and chemical properties, their uses, methods of molding, fabrication and testing. Numerous samples and photographs supplement the textbook and lecture material.

213-214. PHYSICAL CHEMISTRY (3-3) Eblin

Prereq., 201 or with 201, Math. 118, and Phys. 6 or 114.

215, 216. PHYSICAL CHEMISTRY LABORATORY (3, 3) Eblin
6 lab. Prereq., 213 or with 213. Fee, \$12 a semester.

217, 218. ADVANCED PHYSICAL CHEMISTRY (2 or 3, 2 or 3) Day

First semester—Atomic and molecular structure. Topics considered are: the fundamental particles and their arrangement in the atom in the light of the experimental evidence; atomic and molecular spectra; and the relation between molecular structure and physical properties.

Second semester—Kinetic theory. Topics considered are: the kinetics of homogeneous and heterogeneous reactions, both in the gas phase and in solution; catalysis; photoactivated reactions; and the Eyring theory of absolute reaction rates. Maximum credit in course, 6 hrs. Prereq., 214.

221. QUALITATIVE ORGANIC ANALYSIS (4) Dunlap

The separation and identification of organic compounds. Preliminary to research in organic chemistry. 2 lec. and 6 lab. Prereq., 204. Fee, \$12.

224. METALLOGRAPHY (3) Clippinger
A study of metallic structure, heat treating, polishing, microscopic examination, and photographing of steels and other alloys. Prereq., with 213. Offered first semester. Fee, \$12.

225. ELECTROCHEMISTRY (2) Clippinger
A study of the fundamentals of electrolysis, the phenomena of electrolytic dissociation, conductance, transference, electrokinetics, electro-motive force of concentration and oxidation-reduction cells, polarization, and depolarization. Practical applications of electrolytic reduction and oxidation. Offered first semester. Prereq., 213 or with 213.

228. COLLOID CHEMISTRY (3) Eblin
Fundamental principles with applications to various fields. Prereq., 16 hrs. Offered second semester.

229-230. CHEMICAL ENGINEERING (3-3) Dunlap
A study of the fundamental principles of unit operations with problems to illustrate the principles. Prereq., 214.

231-232. CHEMICAL ENGINEERING LABORATORY (2-2) Dunlap
Unit processing and laboratory practice in heat transfer, filtration, distillation, etc. Prereq., 229 or with 229. Fee, \$12 a semester.

233. ADVANCED INORGANIC CHEMISTRY (3) Anderson
A study of the physical and chemical properties of inorganic substances from a consideration of atomic structure and the periodic system of the elements. Special attention is given to electron orbital theory, nature of the chemical bond, prediction and explanation of molecular and crystal geometry, resonance, complex ions, modern concepts of acids and bases, oxidation potentials, and the chemistry of the more interesting of the rare elements. Prereq., 213 or with 213.

235. INORGANIC PREPARATIONS (2) Anderson
A fundamental course in the principles and practice of preparing and testing pure inorganic compounds. Preparations are chosen to illustrate the techniques of crystallization, electrolytic methods, alkaline oxidation, and of handling air sensitive materials, complex ions, gases, and elements with various valence. Emphasis is placed on correlation of methods with the principles of the periodic system. 6 lab. Prereq., 110. Fee, \$12.

251. SPECIAL PROBLEMS IN CHEMISTRY (2 or 3) The Staff
Minor research and the development of the investigative procedures in the various branches of chemistry. Maximum credit in course, 12 hrs. Prereq., 24 hrs. with a B average in chemistry. Laboratory and library work. Fee, \$15.

381. RESEARCH IN CHEMISTRY (2 to 4) The Staff
Maximum credit in course, 12 hrs. Prereq., 36 hrs. Fee, \$15.

395. THESIS (1 to 4) The Staff
Prereq., permission.

CIVIL ENGINEERING—See Engineering

CLASSICAL LANGUAGES

Professor V. D. Hill

Assistant Professor Murphy (chairman)

Two types of courses are included: (1) courses in the Greek and Latin languages and literatures in the original; and (2) courses for which no knowledge of the language is required. These latter courses are open to students throughout the University who may desire to add to their knowledge in these backgrounds of modern civilization.

The major requirement for Greek or Latin for the A.B. degree is a minimum of 20 hours above course 1-2 in either subject, exclusive of Lat. 165r.

The major requirement in Latin for the B.S. in Education degree is given on page 127.

GREEK

1-2. BEGINNING GREEK

(4-4) Hill

An introductory study of the language leading to the reading of selections from classical authors. Attention to the Greek element in English and comparisons of ancient and modern Greek.

14. GREEK EPIC IN ENGLISH*

(1) Murphy

Homer's *Iliad* and *Odyssey* are read in English with special attention to their style, development, narrative, content, and their influence on later literature.

27. GREEK WORDS IN ENGLISH*

(2) Hill

Literary and scientific terms of Greek origin which provide a major part of the technical and semitechnical vocabulary in many of the cultural and professional fields. Special laboratory assignments for developing the student's vocabulary in the range of his particular interests.

55, 56. CONTRIBUTIONS OF GREEK CIVILIZATION*

(1, 1) Hill

A study of the contributions of Greek civilization to modern life. Such specific subjects as history, political science, geography, music, literature, medicine, architecture, mathematics, and the sciences are considered for the part Greece had in their development.

101-102. XENOPHON, HOMER, AND PLATO

(2 or 3—2 or 3) Hill

The reading of parts of Xenophon's *Anabasis* with some review of language principles. Selections from Homer's *Iliad* or *Odyssey* in alternation, followed in Gk. 102 by Plato's *Apology* and *Crito* or the *Phaedo* with some attention to related philosophical works. Maximum credit in course, 6 hrs. Prereq., 2.

211. GREEK DRAMA IN ENGLISH*

(2) Murphy

The evolution of the theater. Class discussion of the great Greek tragedies as well as some comedies of Aristophanes and Menander. Prereq., 12 hrs. English, or 6 hrs. English and 6 hrs. foreign language or dramatic art.

*No knowledge of Greek required.

216. NEW TESTAMENT GREEK (2) Hill
Prereq., 11 hrs.

309. GREEK LYRIC POETS (1 to 3) Hill
Theocritus, Pindar, and Sappho. Prereq., 14 hrs.

310. THE GREEK ORATORS (2) Hill
Selections chiefly from Lysias and Demosthenes. Prereq., 14 hrs.

LATIN

1-2. BEGINNING LATIN (4-4) Murphy
Corresponds to first two years of high school Latin. Introductory course leading to the reading of easy Latin stories of history and mythology with selections from Caesar's *Gallic War* in the second semester. Emphasizes the Latin influence on the language, literature, law, and customs of the modern world.

3. LATIN REVIEW AND READING (4) The Staff
Adapted to the needs of those who have had a break of several years in their Latin study and need a thorough review of fundamentals. Reading of simple classical prose with emphasis upon language as a tool of thought. Prereq., 2 or 2 yrs. high school Latin.

4. VERGIL (4) The Staff
Selections from the first six books of the *Aeneid*, with some study of classical mythology. Prereq., 3 or 3 yrs. high school Latin or permission.

27. ENGLISH WORDS FROM LATIN* (2) Murphy
Vocabulary building through a knowledge of some of the Latin elements which combine to make more than half of the words in the English language. Special attention to the needs of those who wish to master the technical language of law, medicine, science, commerce, or other special fields in which there is a large Latin element.

101. FAMILIAR ESSAYS (4) Hill, Murphy
Cicero's *De Amicitia*, *De Senectute*, *Scipio's Dream*. Some review of essential elements of Latin and a comparative study of the literature on friendship during the first half of the semester. Prereq., 4, 4 yrs. high school Latin, or 3 yrs. and permission.

102. HORACE AND TERENCE (4) Hill, Murphy
A comedy by Terence and selections from Horace's *Odes* and *Epodes*. Prereq., 4 or 4 yrs. high school Latin or permission.

103. PLINY'S LETTERS (3) Hill, Murphy
Selections which reveal the human side of Roman life and society from Nero to Trajan. Prereq., 102 or permission.

104. LIVY AND OVID (3) Hill, Murphy
The legendary history of early Rome and stories from Ovid. Prereq., 102 or permission.

*No knowledge of Latin required.

112. WRITING LATIN PROSE (1) Hill, Murphy
 Exercises in writing Latin designed to give the student greater mastery of the language. Preferably to be done in conjunction with Lat.

102. Prereq., 101.

127. CLASSICAL LATIN PROSE (1 to 3) The Staff
 Selected works of the simpler Latin prose chosen as the personnel of the class demands from authors such as Sallust, Nepos, Caesar, Cicero, Livy, and others. Designed for students in the earlier stages of Latin and for those who feel the need for an accredited review course. Maximum credit in course, 9 hrs. Prereq., 2 or 2 yrs. high school Latin or permission.

165r. TEACHING OF LATIN (2) Hill
 (Same as Ed. 165r) Aims and methods of teaching Latin, the relation of Latin to English, determining the comparative merit of textbooks and important reference material. Some study of important principles of the language. Prereq., 103 or permission.

211. CICERO AND CATULLUS (1 to 3) Hill, Murphy
 Selected letters of Cicero and selections from the poetry of Catullus. Prereq., 103.

212. CAESAR AND PLAUTUS (1 to 3) Hill, Murphy
 Caesar's *Civil War* and one comedy by Plautus. Prereq., 103.

213. HORACE AND JUVENAL (3) Hill, Murphy
 Satire as a literary type in the hands of its two greatest masters. Prereq., 103.

214. TACITUS AND MEDIEVAL LATIN SELECTIONS (1 to 3 as scheduled) Hill, Murphy
 Tacitus' *Agricola* and *Germania*, with selections from medieval Latin. Prereq., 103.

220. VERGIL—LATIN EPIC (Summer session only) (3) Hill
 Lectures on the general literary content and technique of the *Aeneid*, with translations from the last six books. Prereq., 103.

221. SUETONIUS (Summer session only) (3) Hill, Murphy
 The life of Julius Caesar and of Augustus with some consideration of facts obtained from other sources. Prereq., 103.

222. THE LATIN DRAMATISTS (Summer session only) (1 to 3) Hill, Murphy
 Selected comedies from Plautus and Terence and one of the tragedies of Seneca. Informal lectures on the different forms of drama among the Romans and their relation to the Greek. Prereq., 103.

224. PETRONIUS (Summer session only) (2) Murphy
 The *Cena Trimalchionis* is read and studied both for the light it throws on social life in Rome and as an example of Latin prose of the Empire. Prereq., 104.

226. MARTIAL (Summer session only) (1) Murphy
 A study of the epigrams of Martial as they portray with vivid personal touch almost every phase and station of Roman life. Prereq., 103.

227. ROMAN HISTORY IN THE CLASSICAL PERIOD* (Summer session only)

(1) Murphy

A brief survey of the outstanding events of Roman history during the period in which the most important works of Latin literature were produced. Prereq., 6 hrs., or 9 hrs. history and antiquities.

228. ROMAN RELIGION AND MYTHOLOGY*

(2) The Staff

Prereq., 8 hrs. classical languages or history and antiquities, or 12 hrs. English.

229. DEVELOPMENT OF ROMAN CULTURE*

(2) Hill

Beginning with the archaeological evidence of civilization in Italy and in the whole area of the Mediterranean at the time of the traditional founding of Rome, the course is designed to trace the various influences and stages in the growth of Roman culture. Prereq., 8 hrs., or 8 hrs. history and antiquities.

231. THE LIFE OF THE ROMANS*

(2) Hill

The social customs of the Romans: the family, the house, transportation, sources of income, social organization, slavery, public amusements, and related features of Roman life. Various phases are illustrated from the archaeological evidence. Prereq., 11 hrs., or 8 hrs. history and antiquities.

232. HISTORY OF LANGUAGE*

(2) Murphy

How language began, developed, and functions in society; the causes of change and difference; semantics and its application in translation, education, poetry, and propaganda; the history of writing; modern English and its Latin, Romance, and Germanic backgrounds. Pre-req., 8 hrs. foreign language or 12 hrs. English.

233. ADVANCED LATIN SYNTAX

(1 to 3) Murphy

A study of the principles of Latin Syntax with emphasis upon their application in translation. Prereq., 103.

239. READINGS IN LATIN LITERATURE

(1 to 4) Hill, Murphy

Lectures on and translations of selected Latin works not previously read by the student. Selections may be from a wide range of Latin literature, including such authors as Apuleius, Seneca (*Essays*), Lucretius, and the elegiac poets, in accordance with the interests and needs of the class. Maximum credit in course, 10 hrs. Prereq., 103 or equivalent.

240. SPECIAL WORK IN LATIN

(1 to 4) The Staff

Individual work under careful guidance. Maximum credit in course, 8 hrs. Prereq., 103.

311. OVID'S FASTI

(3) Hill

Selected books of the *Fasti* are read for content and for the light they throw on early Roman religion. Some study of elementary principles of text criticism. Prereq., 15 hrs.

*No knowledge of Latin required.

312. SALLUST'S CATILINE AND JUGURTHA (3) Hill
 These are read in their entirety as a background to the political situation which ushered in the Empire. Prereq., 20 hrs.

391. LATIN OF THE TRANSITION PERIOD (SEMINAR) (3) Hill
 Prereq., 20 hrs.

395. THESIS (1 to 8) The Staff
 A thesis may be offered in Latin or in classical languages. Prereq., permission.

COMPARATIVE LITERATURE

14. GREEK EPIC IN ENGLISH (1) Murphy
 (Same as Gk. 14) Homer's *Iliad* and *Odyssey* are read in English with special attention to their style, development, narrative, content, and their influence on later literature. No knowledge of Greek required.

131, 132. COMPARATIVE ROMANCE LITERATURE (1951-1952) (2 or 3, 2 or 3) Ondis
 Analysis of French, Italian, Spanish, and Portuguese literatures and cultural interinfluences. Compar. Lit. 131, from the Middle Ages to 1700; Compar. Lit. 132, from 1700 to the present. Given in English. May be counted as credit in Romance languages. Prereq., Eng. 4.

135. THE BIBLE AS LITERATURE (2) Foster
 (Same as Eng. 135) A study of the early narratives and prophecies of the Old Testament as masterpieces not only of world literature but of English literature. Prereq., Eng. 4.

136. THE BIBLE AS LITERATURE (2) Foster
 (Same as Eng. 136) The King James version of the later prophetic and poetic books of the Old Testament, of the proverbs and essays, and of the sayings and parables of Jesus are read as living literature. Prereq., Eng. 4.

141. EUROPEAN DRAMA (2) Peckham
 (Same as Eng. 141) Readings in English of typical plays by Sophocles, Plautus, Marlowe, Beaumont and Fletcher, Dekker, Jonson, Moliere, Goldsmith, Sheridan, Ibsen, Hauptmann, Rostand, Chekhov, Wilde, Pinero, Galsworthy, O'Neill, and others. Prereq., Eng. 4.

211. GREEK DRAMA IN ENGLISH (2) Murphy
 (Same as Gk. 211) The evolution of the theater. Class discussion of the great Greek tragedies as well as some comedies of Aristophanes and Menander. No knowledge of Greek required. Prereq., 12 hrs. English, or 6 hrs. English and 6 hrs. foreign language or dramatic art.

224. CONTINENTAL NOVEL (2) Lash
 (Same as Eng. 224) Reading of European novels of the nineteenth century, chiefly, with emphasis on the Russian, French, German, and Scandinavian. Prereq., 12 hrs. English.

DESIGN—See Art**DRAMATIC ART**

Associate Professor Andersch
Assistant Professors Lane, Rock
Instructors Hahne, Robinson

21. ELEMENTS OF STAGE SCENERY

(3) Rock

A basic course in the technical considerations of producing a play; the underlying principles of scenic construction; the types and utilization of stage scenery. 1 lec. and 4 lab.

23. ELEMENTS OF STAGE LIGHTING

(3) Rock

The study and practice of stage-lighting units, control equipment, and color media, and its application to play production in the non-professional theatre. 1 lec. and 4 lab.

47. THEATRE LABORATORY

(1) Rock

Participation in the production process connected with the plays presented by the University Theatre and the University Playshop. Rehearsal, performance, make-up, and technical work coincident with theatrical production. Maximum credit in course, 2 hrs.

101-102. MOVEMENT AND PANTOMIME

(2-2) Hohne, Robinson

The analysis of movement from the viewpoint of dance and drama. Body mechanics; dynamics of movement in space and time; experimental application of discovered techniques to social and dramatic situations.

103. CONTEMPORARY THEATRE

(3) Robinson

A study of the contemporary theatre from the point of view of play-writing techniques, acting, direction and production, and business methods.

105. PLAY PRODUCTION

(3) Andersch

A general course designed to familiarize the student with the various aspects of play production including choice of play, casting, direction, and techniques of production. Laboratory experience. Not open to dramatic art majors working toward a B. F. A. degree.

107-108. COSTUMING AND MAKE-UP

(2-2) Rock

Study of historical costume. Consideration of the use of color, line and texture in designing, constructing and adapting costumes for the stage. Theory and practice of stage make-up. 1 lec. and 4 lab. Prereq., Paint. 28 or with Paint. 28, or permission.

122. SCENE DESIGN AND PAINTING

(3) Rock

A course in the various theories of designing settings and painting them. Attention is given to the effect of stage lighting on scenery and make-up. Opportunity for practical experience is given through participation in the University Theatre and University Playshop productions. 1 lec. and 4 lab. Prereq., 21, and Paint. 45 or with Paint. 45, or permission.

147. THEATRE LABORATORY

(1 or 2) Rock

Participation in the production process connected with the plays presented by the University Theatre and the University Playshop. Rehearsal, performance, make-up, and technical work connected with theatrical production. A maximum of seven hours credit may be elected by a student. Prereq., permission.

162x. TEACHING OF HIGH SCHOOL DRAMATICS AND SPEECH

(3) Andersch

(Same as Ed. 162x) Emphasis placed on the organization of curricular and co-curricular speech and dramatic activities. A comprehensive analysis of materials available to the secondary school. Methods of casting, staging, and producing plays. Consideration of problems in coaching debate and oratory. Prereq., 4 hrs., 12 hrs. English and permission. Teaching experience may be accepted in lieu of course prerequisites.

199. PRINCIPLES OF ACTING

(3) Hahne

Designed to orient the student in elementary techniques of stage action and to give practice in the reading, cutting, and acting of dramatic literature. One hour each week is spent in class discussion of current problems, review of literature on acting, and preparation of scripts. The remainder of the time is spent as a workshop, rehearsing scripts for classroom production. 1 lec. and 4 lab. Prereq., 101 and Speech 34.

200. ADVANCED ACTING TECHNIQUE

(3) Lane

Creation of roles in plays of different types, styles, and periods, stressing more difficult characterizations. Study of dialects. Laboratory experience in rehearsal and performance. 1 lec. and 4 lab. Prereq., 199 and permission.

206. ADVANCED STAGECRAFT

(3) Rock

Theories and problems involved in scenic decor. The results of experimentation with paint and structure on the model set are applied to full-scale scenery. 1 lec. and 4 lab. Prereq., 12 hrs. including 21 and 122.

221, 222. DRAMATIC COMPOSITION

(3, 3) Robinson

Theory of playwriting. Practical experience in the writing and rewriting of plays. Scripts of sufficient merit are produced under the writer's supervision by the University Playshop. Prereq., 6 hrs. and 12 hrs. English and/or journalism.

250-251. PLAY DIRECTION

(3-3) Lane

Development of procedure followed by the director in preparing plays for public performance. Analysis of the script. Methods of casting and rehearsal. Capable students direct one-act plays presented by the University Playshop. 1 lec. and 4 lab. Prereq., 12 hrs. including 103, 200, and permission. Graduate students may substitute practical experience in schools for course prerequisite.

253. MASTERS OF THE THEATRE

(3) Lane

Techniques for the production of historical plays. Preparation of director's manuscript and actual supervision of production. Open only to majors in dramatic art. Prereq., 251, F. A. 180, and permission.

381. RESEARCH IN THEATRE PRACTICE

(3 to 6) The Staff

Specific phases of the production process. Attention to classic and contemporary literary treatment. Directed experimentation in theatrical techniques. Prereq., 18 hrs., or 12 hrs. and examination.

391. SEMINAR IN PRODUCTION PROBLEMS

(2 or 3) The Staff

Each student investigates problems in his field of interest. Lectures and group discussions include pageantry, the musical drama, the puppet theatre, the community and church theatre, educational dramatics below the college level, and dramatic criticism. Prereq., 15 hrs.

395. THESIS

(1 to 6) The Staff

Prereq., permission.

Suggested courses:

Radio (See page 290)

F. A. 179-180—History of the Visual Theatre

P. E. 7-8—Modern Dance

P. E. 115-116—Advanced Modern Dance

DRAWING—See Art**ECONOMICS**

Professors Hellebrandt (chairman), Beckert
Associate Professors Fenzel, Picard, Beidatsch
Assistant Professor Levinson
Instructor Crewson

1. THE ECONOMIC DEVELOPMENT OF THE UNITED STATES (3) The Staff

The historical growth of transportation, banking, tariff, manufacturing, labor unions, agriculture, and other economic institutions from colonial times to the present. The study of the economic factors in the development of the United States. Not open to upperclassmen except by special permission.

3. CONTEMPORARY ECONOMIC SOCIETY

(3) Beckert

The organization, operation, and control of economic society with complementary problems. Not open to upperclassmen except by special permission.

15. ECONOMIC GEOGRAPHY

(3) Fenzel

The important natural resources: plants, animals, minerals, and power; the typical manufacturing industries; the systems of transportation: land, water, and air; all studied in their relation to man in his quest for a living.

101-102. PRINCIPLES OF ECONOMICS

(3-3) The Staff

The basic theory and economic analysis of prices, markets, production, wages, interest, rent, and profits. The second half of the course is concerned with the economic problems and economic institutions of society. Among the problems analyzed are labor unions, money and banking, taxation, public utilities, international trade, business cycles, and agriculture.

205. TRANSPORTATION

(2 or 3 as scheduled) Beidatsch

The social, political, and economic aspects of transportation. The economic characteristics of transportation rates and the machinery developed for their determination and adjustment are emphasized. Prereq., 102.

209. PUBLIC UTILITIES

(2 or 3 as scheduled) Beidatsch

The economic basis of the public utility concept and its relation to business organization. The nature, scope, development, legal organization and regulation of public utilities. Prereq., 102.

214. LAND ECONOMICS

(2 or 3 as scheduled) Staff Member

Study of the forces determining land and real estate values, of the economic basis of communities and regions, of residential and non-residential construction markets and of local housing supply, effective demand and needs. Special attention will be paid to problems in community and regional expansion and re-development. Prereq., 102.

215. PUBLIC FINANCE

(3) Picard

Analysis of spending and taxing functions of federal, state, and local governments. The growing importance of fiscal policy in determining level of employment. The economic effects of the various taxes of federal, state, and local governments. Prereq., 102.

221. NATIONAL ECONOMIC POLICY

(2 or 3 as scheduled) Staff Member

The economic implications of government policies. An economic analysis of such policies as government expenditures and taxation, agricultural price support, tariff, minimum wage legislation, public housing, etc. Prereq., 102.

229. COMPARATIVE ECONOMIC SYSTEMS (2 or 3 as scheduled) Picard, Crewson

Historical development of the various types of suggested economic reforms. Growth and analysis of communism, socialism, fascism, and modified capitalism. The economic thought of Marx, Sismondi, G. B. Shaw, H. G. Wells, St. Simon, and others. Prereq., 102.

230. DEVELOPMENT OF ECONOMIC THOUGHT

(2 or 3 as scheduled) Hellebrandt, Picard

The historical evolution of the major economic doctrines: mercantilists and cameralists, physiocrats, Adam Smith and the classical school, the historical school, the Austrian school, Alfred Marshall and the neoclassicists. Prereq., 102.

232. MODERN ECONOMIC THOUGHT (2 or 3 as scheduled) Hellebrandt, Picard

A general survey of contemporary economic thought. It includes a study of J. B. Clark, Thorstein Veblen, Alfred Marshall, J. A. Hobson, W. C. Mitchell, A. C. Pigou, Joan Robinson, Edward Chamberlin, Alvin Hansen, J. M. Keynes, and others. The emphasis will be on the newer economics centering around the Keynesian analysis. Prereq., 102.

233. ECONOMIC THEORY

(2 or 3 as scheduled) Picard

A study of the concepts and tools for analysis of the behavior of business firms in their pricing, production, purchasing, and employment policies. The determination of prices of products and productive agents under conditions of competition, monopolistic competition, and monopoly. The current theories of value and distribution. Prereq., 102.

235. LABOR ECONOMICS

(3) Staff Member

General survey of the economic forces that give rise to modern labor problems. The purpose of the course is to make an analysis of the major economic problems involved and to indicate the trend of policy and organization. Prereq., 102.

238. LABOR LEGISLATION

(2) Staff Member

A survey of the historical background of various labor problems indicating the nature and extent of each with a description of the legislative remedies that have developed and how they have been applied. Prereq., 102.

242. INTERNATIONAL ECONOMICS

(2 or 3 as scheduled) Crewson

Analysis of economic relations among nations of the world. Topics studied include economic effects of exchange control, tariffs, international agreements, resources, cartels, United Nations organizations, and World Trade organizations. Prereq., 102.

281. RESEARCH IN ECONOMICS

(2 to 8) The Staff

Prereq., 15 hrs. and permission.

391. SEMINAR IN ECONOMICS

(2 to 4) The Staff

Maximum credit in course, 10 hrs. Prereq., 15 hrs. and permission.

395. THESIS

(1 to 8) The Staff

Prereq., permission.

Additional courses:

Mgt. 201-202—Production Management

Mgt. 212—Administration of Personnel

Mgt. 225—Industrial Relations

Stat. 241—Business Cycles

EDUCATION

Professors Morton, E. A. Hansen,
 Benz, Shoemaker, G. E. Hill, Kabat
 Associate Professors Dixon, Quick, Yauch
 Assistant Professors Dunham, Olson, DeLand, Eisen,
 Nelson, Ward, Wilson, Starks, C. H. Roberts, McKelvey, Pollock
 Acting Assistant Professor DeLong

ELEMENTARY EDUCATION**3. ORIENTATION IN CHILDHOOD EDUCATION (3) Hansen**

The first course in education designed for those students planning to enter elementary school teaching as a profession. It includes the purposes and organization of American education, the development of the schools, and the opportunities and problems of the teacher in a democracy. The study is related through observation and experience directly to the school.

**101. MATERIALS AND METHODS IN KINDERGARTEN-
 PRIMARY EDUCATION (2) Wilson**

A study of work and play activities of early childhood; and the development, use, and care of materials best suited to this age group. Fee, \$2.

102. LITERATURE FOR CHILDREN (3) Quick

A study of traditional and modern literature for children. Special emphasis on experiences with children and books.

103. STUDIES OF CHILDREN (3) Quick

This course consists of material to help teachers understand children by a study of the growth sequence from birth through adolescence; the influences affecting growth; methods and techniques of studying children; some explanatory principles of behavior.

110. STUDENT TEACHING LABORATORY (4) Hansen, Yauch

A laboratory study approach to the generalizations and principles in classroom administration and pupil adjustment. The course is taken concurrently with the courses in elementary teaching techniques, and with first experiences in classroom teaching. The work is interrelated in purpose and practice. Prereq., with 172. Fee, \$4.

125. THE PURPOSES AND PRACTICES OF EDUCATION (4) Hansen, Dixon

For description of course see "Secondary Education" on page 211.

163b. TEACHING READING AND LANGUAGE (3) Hansen, Starks

A practical course covering the language arts program in the elementary school. Methods and materials valuable in promoting child development in reading and the expressional phases of language are given major emphasis. To be taken with Ed. 172—Student Teaching.

163j. TEACHING ARITHMETIC IN THE ELEMENTARY SCHOOL (3) Morton
Criteria for determining the arithmetic program; a grade-by-grade development of topics and of methods of presentation.

163s. TEACHING ARITHMETIC IN THE UPPER GRADES (3) Morton
Organization and methods of teaching the subject matter of the arithmetic curriculum in grades 7 and 8; the number system; arithmetic and life activities; arithmetic and a liberal education.

169f TEACHING SOCIAL STUDIES AND SCIENCE IN THE ELEMENTARY SCHOOL (3) Pollock
Materials and methods used in teaching the content subjects in the elementary schools, with special emphasis upon human and natural resources and relationships. With student teaching, or permission.

172. STUDENT TEACHING IN ELEMENTARY GRADES (5 to 7) Yauch and Supervising Critics
Prereq., with 110, 163b, and 169f. Fee, \$14.

177. FIELD EXPERIENCE IN STUDENT TEACHING (1 to 3) Staff Member
A one to three-week teaching experience in a public school immediately preceding the senior year. This field experience is to be arranged by the student with the approval of his adviser so that he may participate in classroom teaching and school routine on a full-day basis, including, if possible, attendance at a faculty meeting prior to the opening of school. A statement of the student's success in this experience will be expected from the school, as well as an evaluation written by the student. Prereq., 172.

209. WORKSHOP IN ELEMENTARY EDUCATION (3) Yauch and Staff
A service course to help teachers solve the problems they are facing in the classroom. Workshop method of teaching and learning will be used. Prereq., 9 hrs. and permission.

211. THE CHILD AND THE CURRICULUM (3) Hansen, Quick
A study of the program for elementary education. Consideration of the need for new content, new emphasis, and new organization; the significance of children's needs and interests; the responsibilities of the school in our modern society. Prereq., senior or graduate standing.

212. SENIOR CONFERENCE IN ELEMENTARY EDUCATION (2) Yauch
An integrating course designed to complete the elementary school teacher's professional preparation. Concepts developed throughout the undergraduate program will be examined in the light of current educational thought and practice. Prereq., senior rank.

303. ADVANCED STUDIES OF CHILDREN (3) Quick
An intensive study of certain basic research in child development and its implications for education. 3 lec. Prereq., graduate standing, including 15 hrs. education or psychology, or permission.

For other courses designed primarily for kindergarten and elementary teachers, see H. Ec. 55; Ind. A. 115; Mus. 71, 72, 166e; P. E. 167p; and Design 3, 160c.

HISTORY AND PHILOSOPHY

250. THE HISTORY OF EDUCATION (3) Shoemaker
Studies the agencies of education and the social forces which have conditioned them during ancient, medieval, and modern times. Prereq., 3 hrs. education and Psych. 5.

251. HISTORY OF EDUCATION IN THE UNITED STATES (3) Shoemaker
Shows the European social, economic, and political influence on colonial life and education. The rise and development of public education in the United States is studied in considerable detail. Prereq., 3 hrs. education and Psych. 5.

252. COMPARATIVE EDUCATION (2) Kabat
A study of the educational systems of various countries and the extent to which they meet the needs of the people. Prereq., 6 hrs. education or history or government; senior or graduate standing, and permission.

253. THE EVOLUTION OF EDUCATIONAL THOUGHT (3 to 5) Shoemaker
Deals solely with the educational writings of such theorists as Plato, Aristotle, Quintilian, Montaigne, Locke, Comenius, Rabelais, Rousseau, Pestalozzi, Froebel, Herbert, and Dewey. Prereq., 6 hrs. education and Psych. 5.

254. PHILOSOPHY OF EDUCATION (3) Shoemaker
A comparison of pragmatism, idealism, and realism as philosophical bases for education. Each student is helped to formulate his philosophy of education. Prereq., 9 hrs. education.

255. SOCIAL FOUNDATIONS OF EDUCATION (3) Shoemaker
This course aims to show the interactions between the school and the social order in which it exists. The role of the school will be studied in various types of contemporary societies. Prereq., 9 hrs. education.

256. PROGRESSIVE EDUCATION (3) Staff Member
The philosophy of progressive education and its challenge, with a critical study of theory and newer practices of promise at home and abroad. Includes a thorough study of democratic living as expressed in the philosophy of John Dewey. Prereq., graduate standing and teaching experience.

257. CURRENT EDUCATIONAL LITERATURE (3) Staff Member
A comprehensive study of issues and problems in education as treated in current professional publications. The individual's needs will determine to some extent his current bibliography. Prereq., graduate standing and permission.

350. HIGHER EDUCATION (2) Kabat and Staff
This course is designed to give the student a brief survey of the background and growth of college and university education in the United States. Particular emphasis will be placed on the types of educational

programs offered in various institutions of higher learning, trends in higher education, and the requirements of various college programs. The high school teacher, principal, or director of guidance should find this course of value. Prereq., graduate standing and permission.

LIBRARY ADMINISTRATION FOR SCHOOLS

**191. HISTORY OF LIBRARIES AND THE USE OF
LIBRARY RESOURCES**

(3) F. N. Jones

A survey of the development of book collections serves as an introduction to practical training in the effective use of modern library resources. Open to all students in any year. Required for a minor in library science. Offered second semester.

192. CLASSIFICATION AND CATALOGING OF BOOKS

(3) Chutter

Training in classifying and cataloging books, with practice in the preparation of a card catalog for a high school library. Required for a minor in library science. Offered second semester.

**193. SELECTION AND USE OF PERIODICALS AND VERTICAL
FILE MATERIALS**

(2) M. Jones, Allen

Periodicals, documents, pamphlets, maps, posters and other printed non-book materials as they may be used in a high school library. Offered first semester. (To be given in 1950-51 and thereafter in alternate years.)

194. HISTORY OF BOOKS AND PRINTING

(2) F. N. Jones

A survey of the development of books and printing from early times to the present. Offered second semester. (To be given in alternate years, beginning with 1951-52.)

291. THE SCHOOL LIBRARY

(2) Linnenbruegge

Study of methods and materials used in organizing school library service, and developing library use among grade school pupils. Practice work and field trips. Required for a minor in library science. Offered first semester. Prereq., senior or graduate standing and 191 or permission.

292. ADVANCED LIBRARY ADMINISTRATION

(2 or 3) Library Staff

A seminar to be given in any semester in which three or more students apply. Individual projects under the supervision of a member of the library staff, results to be discussed in periodic meetings of the class throughout the semester. Required for a minor in library science. Prereq., senior or graduate standing and 191 or permission.

293. ADMINISTRATIVE PROBLEMS IN A SCHOOL LIBRARY

(2) F. N. Jones

Study of practical problems in planning adequate library quarters, selection of furniture and equipment, relations with faculty and with purchasing and finance offices. Offered first semester. (To be given in 1950-51 and thereafter in alternate years.) Prereq., senior or graduate standing and 191 or permission.

**294. SELECTION AND PURCHASE OF BOOKS FOR THE
SCHOOL LIBRARY**

(2) F. N. Jones

Introduction to the basic tools of the book trade and to critical aids, with practice in the budgeting of funds, evaluation of prices, and handling of accounts. Offered first semester. (To be given in alternate years, beginning with 1951-52.) Prereq., senior or graduate standing and 191 or permission.

Outside courses offered by other departments, which are recommended for students pursuing a minor in Library Science, may be selected from the following: Ed. 102—Literature for Children; Ed. 141—Audio-Visual Teaching Aids; Design 3—Elementary Design for Teachers; Jour. 130—Book Reviewing. These must be in addition to the fifteen hours in Library Science.

RESEARCH AND SCIENTIFIC TECHNIQUES**141. AUDIO-VISUAL TEACHING AIDS**

(2) Hansen

Sources, selection, and use of audio-visual aids to instruction; their integration in the school program; selection, operation, and maintenance of equipment.

281. EDUCATIONAL STATISTICS

(3) Morton

The tabulation and graphical representation of frequency tables, measures of central tendency, percentiles and percentile curves, measures of variability, probability and the normal curve, and correlation. Practice in the use of statistical tables and calculating machines. Prereq., 6 hrs. education and Psych. 5.

282. ADVANCED EDUCATIONAL STATISTICS

(3) Morton

Nonlinear relations, partial correlation, multiple correlation, regression, transmutation of scores, reliability, and the interpretation of correlation coefficients. Practice in the use of logarithms, statistical tables, and calculating machines. Prereq., 281.

283. RESEARCH IN EDUCATIONAL STATISTICS

(2 to 6) Morton

An advanced course in statistics dealing with the derivation of formulae, the analysis of relationships, and the interpretations of results. Prereq., 282 and permission.

284. RESEARCH IN EDUCATION

(1 to 6) The Staff

Students are directed in the investigation of selected phases of educational theory and practice. Prereq., 9 hrs. education and Psych. 5.

285. EDUCATIONAL MEASUREMENTS

(3) Morton

The improvement of the essay examination; criteria for evaluating tests; teacher-made objective tests; standardized tests; elementary statistical procedures needed in interpreting test results; the use of tests and measurements in the improvement of instruction. Prereq., 6 hrs. education and Psych. 5.

288. INTRODUCTION TO GRADUATE STUDY

(3) Hill

Designed to acquaint students with methods of graduate study and with research procedures in the field of education. Practice is given in selection, planning, and evaluating research problems, in selecting methods of procedure, and in collecting and interpreting data. Required of all graduate students in education. 3 lec. Prereq., 9 hrs. education and Psych. 5.

395. THESIS

(1 to 8) The Staff

Prereq., permission.

SECONDARY EDUCATION

125. THE PURPOSES AND PRACTICES OF EDUCATION

(4) Hansen, Dixon

An introductory survey of the American public school system at all grade levels; objectives, curricular problems, guidance, organization, and administration as they affect the teacher. For combined elementary-secondary majors and teachers of special subjects. Not open to students who have had Ed. 130. Prereq., second semester sophomore standing.

130. INTRODUCTION TO SECONDARY EDUCATION

(4) The Staff

The purposes and problems of secondary education, curricular content and organization, guidance, evaluation, administration and organization as they affect the high school teacher. Prereq., second semester sophomore. Not open to students who have had Ed. 125.

*160h. TEACHING ART

(3) Way

*160m. TEACHING OF INDUSTRIAL ARTS

(3) Kinison

*161b,s,t. TEACHING OF BOOKKEEPING (2), SHORTHAND (2),
TYPEWRITING (2)

Beckert, Appel, Hardenburg

*162h,s. TEACHING OF HIGH SCHOOL DRAMATICS AND
SPEECH (3), SPEECH AND HEARING THERAPY IN
THE PUBLIC SCHOOLS (2)

Staats, Andersch, Beasley

*164a,b,i. TEACHING OF ENGLISH (2 or 4), JOURNALISM (2)

Wray, Lasher

*165f,o,g,r,s. TEACHING OF FRENCH (2 or 3), GERMAN (2),
LATIN (2), SPANISH (2)

Noss, Wilkinson, Hess, Hill, Whitehouse, Ondis

*166b,e,f,j,p. TEACHING OF MUSIC

(2 to 8) Staff Members

*167a,b,e,f,h,n,o,p,s. TEACHING OF PHYSICAL EDUCATION

(1 to 8) Staff Members

*168a,b,g. TEACHING OF AGRICULTURE (3),
BOTANY (2), GENERAL SCIENCE (2)

Wiggin, Boetticher

*These titles each include one or more courses offered by cooperating members of the several subject-matter departments or divisions. A description of each course will be found under its subject-matter listing; e.g., the description of "160m. Teaching of Industrial Arts" will be found under this title in the Industrial Arts section.

*168h. TEACHING OF HOME ECONOMICS (3) Patterson
Fee, \$8.

*168m. TEACHING OF MATHEMATICS (2 or 3) Swick

*168s,p,z. TEACHING OF CHEMISTRY (2 to 4), PHYSICS (2),
ZOOLOGY (2) Staff Member, Edwards, Stehr, Anderson

*169h,s. TEACHING OF SOCIAL STUDIES (2),
SOCIAL SCIENCE (2) Roberts, Jeddelloh

180. OBSERVATION AND PARTICIPATION IN HIGH
SCHOOL, ACADEMIC SUBJECTS (3) Roberts
Prereq., 130, junior rank, with 228.

181. STUDENT TEACHING IN HIGH SCHOOL, ACADEMIC SUBJECTS (4) Roberts
Prereq., 180 or permission and senior rank. Fee, \$8.

182. OBSERVATION AND PARTICIPATION IN SPECIAL
SUBJECTS (3) Roberts and Departmental Supervisors
Majors in art, music, and physical education divide the observing
time between the elementary and high schools. Prereq., 130 or 125,
junior rank, with 228.

183. STUDENT TEACHING IN SPECIAL SUBJECTS: Art, Music, and Physical
Education in the Elementary School (2) Roberts and Departmental Supervisors
Prereq., 182 or with 182, and senior rank. Fee, \$4.

184. STUDENT TEACHING IN SPECIAL SUBJECTS: Art, Music, and
Physical Education in the High School (2) Roberts and Departmental Supervisors
Prereq., 182 or with 182, and senior rank. Fee, \$4.

185. STUDENT TEACHING IN SPECIAL SUBJECTS: Agriculture, Commerce,
Home Economics, and Industrial Arts in High School (4) Roberts and Departmental Supervisors
Prereq., 182 or with 182, and senior rank. Fee, \$8.

186. STUDENT TEACHING IN SPEECH CORRECTION (3) Roberts and Departmental Supervisors
Prereq., 125 and Speech 207. Fee, \$6.

228. PRINCIPLES OF TEACHING (3) The Staff
Basic principles and processes in learning and teaching, with em-
phasis on the nature and extent of the teacher's responsibility. Analysis
of chief proposals for improving classroom procedure, and means of
measuring the effectiveness of teaching. Prereq., Psych. 5, Ed. 130, with
180 or 182.

270. SENIOR CONFERENCE IN SECONDARY EDUCATION (2) The Staff
An integrating seminar to give professional focus to the total under-
graduate program. The professional problems of the secondary teacher,
employment and promotion, extra-class responsibilities, current educa-
tional issues, and other topics. Prereq., senior rank, student teaching or
permission.

*These titles each include one or more courses offered by cooperating members of the several subject-matter departments or divisions. A description of each course will be found under its subject-matter listing; e.g., the description of "160m. Teaching of Industrial Arts" will be found under this title in the Industrial Arts section.

328. ADVANCED PRINCIPLES OF TEACHING (3) Hill
A critical appraisal of teaching in the secondary school in the light of available research. Improvement of instruction through the application of modern knowledge of the teaching processes. Prereq., Psych. 5 and Ed. 228 (or equivalent).

SCHOOL ADMINISTRATION AND SUPERVISION

210. ADMINISTRATION OF THE ELEMENTARY SCHOOL (2) Yaunch

The responsibilities of both teachers and principal in democratic administration in such areas as curriculum construction, supervision, plant management, public relations. Practical problems used as a basis of study. Prereq., 6 hrs. education including 240.

230. HIGH SCHOOL ADMINISTRATION (2) McKelvey

The school plant, the program of studies, the program for health, vocational education, guidance, extracurricular activities, provisions for individual differences, the selection, assignment and payment of teachers, and the school schedule in modern junior and senior high schools. Prereq., 6 hrs. education including 240.

232. THE HIGH SCHOOL CURRICULUM (2 or 3) Benz, Roberts

The high school program of studies, the contributions of various subjects, integration, theories of curriculum construction, curriculum research, and desirable steps in the reorganization of the high school curriculum. Prereq., 6 hrs. education including 130.

240. FUNDAMENTALS OF SCHOOL ADMINISTRATION (3) Dixon, McKelvey

Democratic school administration; structural organization of education personnel and salary policies; administration of curriculum, public relations, attendance and classification, evaluation, etc. Prereq., 6 hrs. education.

241. SCHOOL FINANCE AND BUSINESS ADMINISTRATION (2) McKelvey

Local, state and federal finance, with problems in the financing of schools; business management in such areas as the school budget, financial reports, school purchasing, transportation and insurance; planning and operation of school building facilities. Prereq., 6 hrs. education including 240.

244. HUMAN PROBLEMS IN SCHOOL ADMINISTRATION (3) Benz

A course dealing with problems of human relations in school administration. Prereq., 9 hrs. education including 240, and either graduate standing or permission. Fee, \$5.

246. SUPERVISION OF INSTRUCTION (2 to 4) Yaunch

The principles underlying democratic supervision and techniques which promote the growth of teachers in service. Laboratory experiences in analysis of teaching situations. Prereq., 210 and 211, or 230 and 232.

248. STUDENT PERSONNEL SERVICES—PRINCIPLES (3) Hill

The need for guidance in the schools. The nature of student personnel services. The major services, their operation and organization. The evaluation of student personnel work. Prereq., 6 hrs. education and Psych. 5.

249. STUDENT PERSONNEL SERVICES—PRACTICE (3) Hill

Directed practice in counseling and other personnel services in co-operating schools. The purpose is to help those preparing for guidance work to become more familiar with and adept in some of the commoner aspects of student personnel work. Prereq., 248.

272. LABORATORY SCHOOL PROBLEMS (2) Staff Member

For critic teachers, demonstration teachers, directors of student teaching in teacher-training institutions, and for those desiring to prepare for such positions. Seniors, graduate students, and permission. Prereq., 6 hrs. education and Psych. 5.

273. SUPERVISION OF STUDENT TEACHING (4 to 6) Staff Member

This course is designed to prepare students for the work of the supervising teacher in a college or university. Actual and prolonged experiences will be given in guiding observation, participation, teaching and group conference work. The major emphasis will be upon directing novice student teachers in learning to teach children. The regular supervising teacher is directly in charge. Graduate students with successful in-service teaching experience are admitted by permission. Prereq., graduate standing.

SPECIAL EDUCATION

Students desiring the state certificate to qualify as teachers of special education classes should consult Mrs. DeLand regarding courses in sociology, psychology, and zoology which are required along with the courses listed below.

122. DIAGNOSTIC AND REMEDIAL INSTRUCTION IN ELEMENTARY SUBJECTS (2) DeLand

A laboratory course in methods of diagnosis and remedial treatment in fundamental school subjects for problem cases. Students are given opportunity to observe and work with exceptional children.

123. CURRICULUM FOR SPECIAL CLASSES (3) DeLand

Types of curricula for special classes. Units of work, materials and subject matter suited to the mental ability and level of exceptional children. Methods of presenting and guiding the daily program to aid in social and vocational life adjustment.

221. ORGANIZATION OF SPECIAL CLASSES (2) DeLand

Need of special education in public schools. Types of classes organized as sight saving, blind, hard of hearing, deaf, speech, orthopedic, cerebral palsied, and mentally retarded. Selection and classification of

children, cooperation with other departments, individual case studies and record taking, and aftercare of special class children. Course will be especially helpful to school administrators and guidance workers.

225. PROBLEMS IN SPECIAL EDUCATION—THE SLOW LEARNER

(2 to 6) DeLand

Designed for the regular classroom teacher in elementary and secondary education who might have retarded or slow learners in with average and rapid learners. How to locate their needs and what to do about them.

ELECTRICAL ENGINEERING—See Engineering

ENGINEERING

Dean E. J. Taylor

Professors Green, Wilsey, Gaylord, Black

Associate Professors McClure, Clark, Thomas, Lausche

Assistant Professors Toews, Nellis

Instructors Selleck, Wickham, Gotolski, Quisenberry, Hicks

Acting Instructors Hoffee, Badger

1. ENGINEERING ORIENTATION

(1) Taylor

ENGINEERING DRAWING

(Mr. Thomas, chairman)

1-2. ENGINEERING DRAWING

(2-2) Thomas, Nellis, Wickham

Freehand lettering, use of instruments, geometric constructions, freehand drafting, orthographic projection, auxiliary and sectional views, dimensioning. Isometric, oblique, detail and assembly drawing. Intersections, developments, tracings and blue prints. Working drawings made from actual machine parts using the common measuring devices (micrometers, surface gauge, calipers, thread gauge, etc), and dimensioned in the accepted American Standard method. Students who enter with two or more units of mechanical drawing may be excused by the department from part or all of the course. 6 lab.

3. THE SLIDE RULE

(1) Thomas, Nellis

Prereq., Math. 5.

15. INDUSTRIAL ARTS DRAWING

(3) Wickham

Pictorial methods, working drawings, gears, cams, screws, fastenings, architectural drawings, delineation, perspective, mechanical lettering, related information and special instruments of interest to teachers of mechanical drawing. 9 lab. Prereq., 1.

101. DESCRIPTIVE GEOMETRY

(3) Thomas, Nellis, Wickham

Problems relating to points, lines, planes, solids, and their projections, space visualization, curved surfaces, intersection of planes and solids, model making, practical applications. Daily exercise sheets. 1 lec. and 4 lab. Prereq., 1.

102. DESCRIPTIVE GEOMETRY

(2) Thomas

A continuation of 101 dealing with the practical applications of the representation, intersection and development of plane surfaces. Double curved surfaces as used in ship, automobile and aircraft construction are included. Daily exercise sheets. 1 lec. and 2 lab. Prereq., 101.

CIVIL ENGINEERING

(Mr. Gaylord, chairman)

10. PLANE SURVEYING

(3) Clark, Gotolski

Basic theory underlying field measurements for engineering work; emphasis on correct procedure, proper note form, and computations. The theory is supplemented by field work in which the student gains proficiency in the use of surveying instruments. 2 lec. and 3 lab. Prereq., Math. 5. Fee, §3.

110. TOPOGRAPHIC SURVEYING

(2) Clark

Application of the principles of surveying to map making, study of horizontal and vertical control, triangulation, stadia traversing, note taking and reduction, and map making. 6 lab. Prereq., 10. Fee, \$2.

111. ROUTE SURVEYING

(2) Clark

Application of the principles of route engineering in the field. A center line for one type of transportation route is laid out and profile and cross-sections taken. Computation of areas, cut and fill, cost estimate. 6 lab. Prereq., with 151. Fee, \$2.

121. APPLIED MECHANICS

(3) Wilsey, Gotolski

Algebraic and graphic solution of equilibrium of forces, application to jointed frames, centroids and moments of inertia, friction. Prereq., Math. 118 or with Math. 118.

122. APPLIED MECHANICS

(2) Wilsey, Gotolski

A continuation of 121, treating the general subjects of kinematics and dynamics. Prereq., 121.

124. STRENGTH OF MATERIALS

(3) Wilsey, Gotolski

Elementary stresses and strains, torsion, flexure including elastic curve equations, columns, combined stresses, stresses due to impact. Prereq., 121.

126. TESTING LABORATORY

(1) Wilsey

A series of experiments on the tensile, compressive, and shearing strengths of the principal materials of engineering. 2 lab. Prereq., with 124. Fee, \$1.

129. SOIL MECHANICS

(3) Gotolski

Theories of earth pressure and bearing capacities, with application to the design of earth structures. 2 lec. and 2 lab. Prereq., 124 or with 124.

130. STRUCTURAL ANALYSIS (4) Gaylord
Application of the laws of static equilibrium to the analysis of stresses in component parts of engineering structures. Prereq., 121.

131. STRUCTURAL DESIGN (4) Gaylord
A study of the design of structural members and connections in steel, aluminum, concrete and timber. Prereq., 124, 130.

132. CIVIL ENGINEERING STRUCTURES (4) Gaylord
Design of bridges, buildings, retaining walls, foundations, and miscellaneous civil engineering structures. 3 lec. and 3 lab. Prereq., 131.

133. AIRCRAFT STRUCTURES (4) Gaylord
Design of fuselage surfaces, engine mount, landing gear and other aircraft assemblies. 3 lec. and 3 lab. Prereq., 131.

141. FLUID MECHANICS (3) Clark
Fundamental principles of the mechanics of fluids and their application to engineering. Fluid pressure, flow in orifices, weirs, pipes and open channels; elementary theory of pumps and turbines. Prereq., 122.

142. SANITARY ENGINEERING (4) Clark
Sources, treatment, and delivery of pure water to consumers; collection, treatment, and disposal of water wastes. Theory of design, construction, and estimation of the various types of water works and sewage disposal plants. Prereq., 141.

146. HYDRAULICS LABORATORY (1) Wilsey
Experimental study of orifices, weirs, flow in pipes and channels; hydraulic jump; turbines; pumps. 2 lab. Prereq., 141 or with 141. Fee, \$2.

151. ROUTE ENGINEERING (3) Clark
Theory of simple and compound curves, spiral easements, vertical curves, earthwork quantities, construction methods and tracks as applied to transportation routes. Prereq., 10.

152. HIGHWAY ENGINEERING (2) Clark
Materials, drainage, alinement, capacity, and finance as used in construction, maintenance, and operation of the modern highway. Prereq., 151.

177. ENGINEERING ECONOMY (3) Gaylord
Economy studies for proposed new enterprises, replacement of existing machines or structures, break-even and minimum cost points, planning for growth, and economy studies for public works. Prereq., junior rank.

202. HYDROLOGY (3) Wilsey
A study of precipitation data, relationships between rainfall and runoff, with applications to irrigation, flood control, erosion control, and municipal and industrial water supply. Prereq., Phys. 114.

205. AERODYNAMICS

(3) Wilsey

Aerodynamic characteristics of airfoils and factors affecting stability and control. Performance calculations. Prereq., 122.

211. PHOTOGRAMMETRY

(3) Clark

An introduction into the field of photogrammetry as applied to civil engineering. Methods and equipment used in taking aerial photographs, practice in the use of photogrammetric equipment and study of specialized equipment used by private aerial survey organizations and the governmental agencies such as the U. S. Geological Survey, the U. S. Engineers, etc. Planimetric and topographic maps are made from aerial photographs using photogrammetric equipment. 2 lec. and 2 lab. Prereq., 111. Fee, \$3.

213. ADVANCED SURVEYING PROBLEMS

(2) Clark

Principles and practices in calculations for azimuth, latitude, and longitude by means of observations on Polaris and the sun with the surveyor's transit. Miscellaneous problems in land surveying and contour lines. Extended use of the plane table. 6 lab. Prereq., 111. Fee, \$2.

224. ADVANCED STRENGTH OF MATERIALS

(3) Gaylord

Curved bars; stresses in flat plates; buckling of bars, plates, and shells; theories of strength. Prereq., 124.

225. MECHANICAL VIBRATIONS

(3) Staff Member

Harmonic and non-harmonic vibrations of systems of one degree of freedom; systems of several degrees of freedom; vibration of elastic bodies. Prereq., 122 and Math. 215.

230. STRUCTURAL ANALYSIS

(4) Gaylord

Theory of analysis of structures for which the conditions of static equilibrium are insufficient to obtain a solution. Prereq., 124, 130.

ELECTRICAL ENGINEERING

(Mr. Green, chairman)

101-102. FUNDAMENTALS OF RADIO

(3-3) Green

Preliminary study of electrical circuits, resonance and tuning applications, the vacuum tube, amplifier circuits, the complete receiver, radio transmitters, antennae and transmission lines. Laboratory work parallels the theory and includes such experiments as measurement of coils and condensers, use of frequency meters, assembling and aligning of receivers, tuning and operation of transmitters, and elementary measurement of radio field intensity. 2 lec. and 2 lab. Prereq., Math. 5. Fee, \$3.

129-130. CIRCUITS AND MACHINERY

(3-3) Quisenberry

Direct and alternating current circuit studies, theory and operation of direct and alternating current machinery. For non-electrical students. Prereq., Math. 118 and Phys. 113-114.

143-144. ELECTRICAL ENGINEERING

(4-4) McClure

Direct current electrical and magnetic circuit analysis, D. C. machine characteristics and operation. A. C. circuits including complex circuit analysis and wave analysis. Prereq., Math. 118, Phys. 114, and with 149-150.

145-146. DYNAMO AND MEASUREMENTS LABORATORY

(3-3) Hoffee

Electric and magnetic measurements and the characteristics of D. C. machinery. 6 lab. Prereq., with 143-144. Fee, \$3 a semester.

149-150. ELECTRICAL MEASUREMENTS THEORY

(2-2) McClure

Fundamental theory of the potentiometer, galvanometer, magnetic oscilloscope, permeameter, methods of calibrating ammeters, voltmeters, wattmeters, watt-hour meters, both D. C. and A. C. instruments. Methods of measuring resistance, inductance, capacitance; a study of transients and wave analysis, resonance phenomena. Prereq., with 143-144.

203-204. COMMUNICATION ENGINEERING

(4-4) Green

A study of the fundamentals of communication engineering at radio and telephone frequencies. Network theorems, resonance, transmission lines, filters, and coupled circuits. Impedance matching, vacuum tubes, amplifiers, modulators, radiation and applications to radio and telephone apparatus. Laboratory follows theory closely. 3 lec. and 2 lab. Prereq., 144 or 130. Fee, \$4 a semester.

209, 210. HIGH FREQUENCY TECHNIQUES

(3, 3) Green

Application of electronic and communication principles to ultra high frequency circuits, including vector analysis of electric circuits, trigger and pulse circuits, ultra high frequency oscillators, transmission lines, electro magnetic waves, wave guides, and radiation. Prereq., 144 or 130. Fee, \$3.

211, 212. ADVANCED RADIO LABORATORY

(1 to 4) Green

Special problems of current interest in the field of radio engineering. 2-8 lab. Prereq., 101 or 203. Fee, \$4 a semester.

225. ACOUSTICS

(3) Green

Principles of sound generation and propagation in free space and in enclosures, methods of sound measurement; characteristics of speakers, microphones, and receivers; design of horns; acoustics of auditoriums, theaters, and broadcasting studios; public address systems. Laboratory includes measurements with cathode ray oscilloscope, sound intensity meters, standard oscillators, and acoustic bridges. 2 lec. and 2 lab. Prereq., Math. 118 and Phys. 113, 114. Fee, \$3.

233. ILLUMINATING ENGINEERING

(3) Staff Member

Principles of light and radiation; various light sources, their characteristics and efficiencies; principles and practice of photometry; design of illumination for various types of homes and industries. Laboratory gives practice in illumination measurements. 2 lec. and 2 lab. Prereq., Math. 118 and Phys. 114. Fee, \$3.

235. ELECTRICAL TRANSMISSION OF POWER (3) Selleck

Economic and electrical principles of transmission of electrical power, line equations and calculations, hyperbolic solution of long lines, insulation and protection against transients, mechanical principles and practical line construction. Prereq., 144 or 130.

243-244. ELECTRICAL ENGINEERING (4-4) Selleck

Characteristics and performance of A. C. machines including static transformers, synchronous generators, synchronous and asynchronous motors, advanced circuit analysis. Prereq., 144 and 146.

245-246. ELECTRICAL ENGINEERING LABORATORY (2-2) Selleck

A. C. circuit measurements, transformer grouping and testing, measurement and predetermination of characteristics of A. C. machinery. 4 lab. Prereq., with 243-244. Fee, \$2 a semester.

248. ELECTRICAL DESIGN (3) Selleck

Fundamental electric machine design relations. After a preliminary study, the student designs a direct current generator, a transformer, and an induction motor and predetermines the performance. Prereq., 243.

271, 272. ENGINEERING ELECTRONICS (3, 3) Green

A comprehensive theoretical treatment of the fundamentals of electronics and the general properties of electronic tubes with application to engineering. Prereq., Math. 118 and Phys. 114. Fee, \$3 a semester.

288. SERVOMECHANISMS (3) Quisenberry

Automatic controller design and application, including the study of viscous output damping, error rate damping, integral control, error rate stabilization networks, and transfer functions. A working knowledge of Heaviside's Operational Calculus is introduced early in the course. Prereq., 144 or 130, Math. 215.

291-292. STUDIES IN ELECTRICAL ENGINEERING (1 to 6) Staff Member

Discussion in recent developments in electrical engineering, problems in design and intensive study of a chosen particular subject. Prereq., 15 hrs.

298. SYMMETRICAL COMPONENTS (3) Quisenberry

Circuits analysis by symmetrical components. This includes representation of unbalanced polyphase currents and voltages by component symmetrical sets; unbalanced circuit problems solved by the use of symmetrical components; faults on power systems and relaying problems. Prereq., 144 or 130.

305-306. PROBLEMS IN ADVANCED A. C. MACHINERY (3-3) The Staff

Problems taken up deal with transient conditions in alternators, motors, and transformers. Applications of the methods of symmetrical components to unbalanced operating conditions. 2 lec. and 2 lab. Prereq., 244 and 246. Fee, \$3 a semester.

310. ELECTRICAL STATION DESIGN (3) Quisenberry
 The application of economic principles to the problems of electric generating station design, selection of apparatus, balancing initial and subsequent costs, interrelation of the mechanical and electrical elements of design. Power plant visitation and reports. Prereq., 229, 230, and 244.

381. RESEARCH IN ELECTRICAL ENGINEERING (1 to 6) The Staff
 A course for graduate students and the occasional undergraduate student who desires to do some original work in experimental engineering. Prereq., 144. Math. 118, and Phys. 114. Fee, \$4.

391. ADVANCED SEMINAR IN ELECTRICAL ENGINEERING (1 or 2) The Staff
 Prereq., 15 hrs.

395. THESIS (1 to 8) The Staff
 Prereq., permission.

MECHANICAL ENGINEERING

(Mr. Black, chairman)

101. MECHANISM (3) Black
 A study of basic mechanisms including analytical and graphical analyses of linkage, cams, gears and gear production methods. 1 lec. and 4 lab. Prereq., C. E. 121.

102. DYNAMICS OF MACHINERY (3) Black
 Analytical and graphical studies of velocities and accelerations and of static and inertia forces in machinery; engine force analysis and balancing of machinery. 1 lec. and 4 lab. Prereq., 101.

103. MACHINE DESIGN (3) Black
 Application of mechanics, mechanism, materials, and mechanical processes to the design and selection of machine members, such as fastenings, links, springs, translation screws, belts, hoists, chains, couplings, clutches, brakes, gears, shafts, bearings and vibration mountings. 2 lec. and 2 lab. Prereq., 102, C. E. 124 and Ind. A. 26.

104. MACHINE DESIGN (3) Black
 Application of the work covered in M. E. 103 to the design of complete machines or sub-assemblies. 6 lab. Prereq., 103.

105. THERMODYNAMICS (3) Hicks
 Energy equations, entropy, properties, and thermodynamic processes of gases, compressed air engines, the Otto and Diesel cycles and engines, the properties of steam engine and vapor cycles, steam engines and turbines, principles of refrigeration. Prereq., Math. 118 and Phys. 113, 114.

106. STEAM POWER ENGINEERING (3) Lausche
 Solid, liquid, and gaseous fuels, principles of combustion, stationary boilers, grates, stokers, furnaces, coal pulvizers, economizers, pre-

heaters, superheaters, stacks, forced and induced draft, boiler fed pumps, steam engines and turbines, condensers, gas and oil engines. Prereq., 105 or permission, and Math. 118.

108. STEAM POWER LABORATORY

(2) Hicks

Calibration of measuring instruments and the proximate analysis of coal. Tests on steam engines, turbines, boilers, and feed pumps. 4 lab. Prereq., with 106. Fee, \$4.

109. AIRCRAFT ENGINES

(3) Toews

Performance and construction of aviation engines and propellers. 2 lec. and 2 lab. Prereq., 105. Fee, \$3.

111. ENGINEERING METALLURGY

(3) Taylor

An introductory course in metallurgy from the engineering point of view. Designed for those who have had no previous experience in the subject. It includes a survey of the art and science of extracting metals from their ores and adapting these metals for human utilization. The theory is supplemented by laboratory work and field trips. 2 lec. and 2 lab. Prereq., Chem. 4, Phys. 113 and/or with C. E. 124 and C. E. 126. Fee, \$3.

201. APPLIED THERMODYNAMICS

(3) Toews

Thermodynamics of gases and vapors; applications to compressors; vapor cycles, refrigeration, and flow of fluids. Prereq., 106.

202. COMBUSTION ENGINES

(3) Toews

Ideal and actual processes; construction of gas, gasoline, Diesel engines, and gas turbines; performance; fuel; combustion; carburetion; fuel injection. 2 lec. and 2 lab. Prereq., 201. Fee, \$3.

204. HEATING, VENTILATING, AND AIR CONDITIONING

(3) Toews

Heating, ventilating, humidifying and cooling for comfort; methods and applications. Prereq., 201.

**291. SPECIAL INVESTIGATION IN MECHANICAL
ENGINEERING**

(2 or 3) Black

Individual work or work in small groups under guidance in the analysis or experimental investigation of a machine or component of a machine, or studies in a special field of mechanical engineering. 2 or 3 lab. Prereq., 105, Phys. 114, and Math. 215.

292. ADVANCED MACHINE DESIGN

(3) Black

Advanced problems in the design and analysis of machine members including consideration of stress propagation; stress analysis; fatigue and creep; surface finish, friction and wear; lubrication; mechanical vibration; Coriolis' acceleration; Castigliano's theorem; and graphical analysis. 3 lec. Prereq., with 104 or permission.

ENGINEERING DRAWING—See Engineering

ENGLISH

Professors Mackinnon, Wray, Foster, Heidler (chairman), Caskey*, Peckham
Associate Professors McQuiston, Lash (director of Freshman English), Kendall, Kirchner, Davidson
Assistant Professors Thompson, Rundle, Albaugh
Instructors L. C. Brown, Picard, Hand, Knecht
Acting Instructors F. H. Bennett, Trudering, I. G. LaFollette, Mather, Putney, Watson, Rizzo, Stump, Diamond, Cook
Charles Allen Smart, Writer in Residence

The major requirement in English for the A.B. degree includes: Eng. 3-4, 101, 102 (12); American literature (3); and (13) from three of the following periods: Early and Middle English (2-3), sixteenth and seventeenth centuries (3-6), eighteenth century (2-4), nineteenth and twentieth centuries (3-6), and electives.

All English majors must have completed before graduation, in high school and/or in college, the equivalent of three college years in foreign language, with two years in one language.

All students planning to teach English in the high school must complete *four* hours in methods (English 164a and 164b).

The major requirement in English for the B.S. in Education degree is given on page 126.

1. ENGLISH COMPOSITION

(3) The Staff

Emphasis is placed upon the grammatical elements of English composition and the building of the sentence and the paragraph. The course is designed for students who fail the English Placement Test for admission to English 3. After completing English 1 with a grade of not less than C, students are required to pass English 3-4. Credit is not counted toward a degree.

3-4. ENGLISH COMPOSITION

(3-3) The Staff

A progressive course in written composition. Beginning with a brief review of the fundamentals of grammar and paragraph building, the course offers practice in reading comprehension and in the writing of clear, forceful exposition.

85. INTENSIVE DRILL IN FUNDAMENTALS

(1) Kirchner

A course in the fundamentals of English composition designed for those who need intensive drill in the basic elements of grammar and sentence structure to supplement the work of required courses in composition. This course cannot be counted in an English major or minor.

91, 92. APPRECIATION OF LITERATURE

(1,1) Kendall

An introduction to the delights of reading. This course is designed to lead the student into the enjoyment of the best books of English and American prose and poetry.

*On leave of absence.

101. SOPHOMORE ENGLISH LITERATURE

(3) The Staff

The course is devoted to a study of early folk literature, Chaucer, Shakespeare, Milton, and the major writers of the eighteenth century. Prereq., 4.

102. SOPHOMORE ENGLISH LITERATURE

(3) The Staff

The course is devoted to a study of the major Romantic and Victorian poets and such outstanding prose writers as Carlyle, Newman, Arnold, and Huxley. A Victorian novel is also required. Prereq., 4.

111. THE CHIEF AMERICAN WRITERS

(3) The Staff

A study of representative material, prose and poetry, selected from the writings of Edwards, Franklin, Paine, Jefferson, Freneau, Irving, Cooper, Bryant, Poe, Hawthorne, Emerson, and Thoreau. Prereq., 4.

112. THE CHIEF AMERICAN WRITERS

(3) The Staff

A continuation of Eng. 111. Emphasis is placed upon selected prose and poetry from the writings of Whittier, Longfellow, Holmes, Lowell, Melville, Lincoln, Whitman, Lanier, Mark Twain, Howells, James, Adams, Norris, Emily Dickinson, Robinson, and Frost. Prereq., 4.

114. WRITING TECHNOLOGICAL AND SCIENTIFIC REPORTS

(2) Kirchner

A course designed to familiarize the engineer and scientist with the form, content, make-up, and mechanics of reports, abstracts, letters of transmittal, and other writings employed in engineering and industry. Prereq., 4.

120. MYTHOLOGY IN ENGLISH AND AMERICAN LITERATURE

(2) Lash

The study by means of lectures and student reports of the allusions to Classical, Teutonic, and Scandinavian mythology found in English and American literature. Special attention will be given to allusions in Chaucer, Spenser, Milton, Gray, Shelley, Keats, Swinburne, Morris, the Concord group, and other literary figures. Prereq., 4.

135. THE BIBLE AS LITERATURE

(2) Foster

A study of the early narratives and prophecies of the Old Testament as masterpieces not only of world literature but of English literature. Prereq., 4.

136. THE BIBLE AS LITERATURE

(2) Foster

The King James version of the later prophetic and poetic books of the Old Testament, of the proverbs and essays, and of the sayings and parables of Jesus are read as living literature. Prereq., 4.

141. EUROPEAN DRAMA

(2) Peckham

Readings in English of typical plays by Sophocles, Plautus, Marlowe, Beaumont and Fletcher, Dekker, Jonson, Moliere, Goldsmith, Sheridan, Ibsen, Hauptmann, Rostand, Chekhov, Wilde, Pinero, Galsworthy, O'Neill, and others. Prereq., 4.

150. THE SHORT STORY

(2) McQuiston

A historical and critical study of the short story. Lectures and extensive reading in short story classics. Prereq., 4.

151. SHAKESPEARE

(3) Kendall

Shakespeare's principal plays. Reading and interpretation of the plays, lectures on Shakespeare's life and times, study of the Shakespearean stage and dramatic technique. Prereq., 4. Not for English majors.

164a. TEACHING OF ENGLISH IN THE SENIOR HIGH SCHOOL (2) Wray

(Same as Ed. 164a) A study of the content and presentation of poetry, drama, novel, and short story. Prereq., 4 and junior or senior rank.

164b. TEACHING OF ENGLISH IN THE SENIOR HIGH SCHOOL (2) Wray

(Same as Ed. 164b) A study of the content and presentation of grammar and composition. Prereq., 4 and junior or senior rank.

171. SOPHOMORE EXPOSITION

(3) Heidler

This course opens with a review of the principles underlying effective expository writing, followed throughout the semester by illustrations from many sources. Expository selections from current magazines and books are chosen by the students for reading and analysis in class. Each student is provided with frequent opportunity to write in the field of his major interest, and his productions are usually read and discussed in class. All papers are returned to the student with detailed corrections and suggestions. Individual conferences are scheduled as needed. Prereq., 4.

175. CREATIVE WRITING

(2 to 4) MacKinnon, Smart

The course is designed to help the student to find out what he has to say imaginatively about human life, and to help him to say it as effectively as possible, using the work of the masters and our own experience as guides. Emphasis is on fiction of all types, verse, and personal essays. Class discussion springs most often from the student's own work, and each student confers with either one of the instructors once a week. Prereq., 4 and junior or senior rank.

201. SHAKESPEARE

(3) McQuiston

Comedies and histories. Shakespeare's development as a dramatist, especially as a writer of comedies and historical dramas. Consideration of the dramatic and literary values of the plays and of their place in the whole body of Shakespeare's work. Prereq., 12 hrs.

202. SHAKESPEARE

(3) McQuiston

Tragedies and sonnets. Evolution of the Shakespearean concept of tragedy. Intensive study and analysis of the great tragedies and rapid reading of the less well-known tragedies and the sonnets. Shakespeare as a commentator on the human problem. Introduction to Shakespearean scholarship and criticism. Prereq., 12 hrs.

203. SIXTEENTH CENTURY LITERATURE

(3) Wray

A study of the chief poets and prose writers. Prereq., 12 hrs.

204. ELIZABETHAN DRAMA, 1550-1642

(2) Kendall

A study of the English drama from 1550 to 1642, thus including the predecessors, the contemporaries, and the immediate followers of Shakespeare. Prereq., 12 hrs.; or 9 hrs., including 101, and 3 hrs. dramatic art.

205. SEVENTEENTH CENTURY LITERATURE (2) Davidson
 (Exclusive of Milton and the drama) A study of the more significant writers of prose and poetry together with the main cultural and historical currents of the period. Prereq., 12 hrs.

207. MILTON (2) Foster
 A detailed study of Milton's prose and poetry with reference to his times. Prereq., 12 hrs.

213. ENGLISH PROSE FICTION (3) Mackinnon
 A study of the development of the English novel through different periods. Prereq., 12 hrs.

214. AMERICAN PROSE FICTION (3) Heidler
 The development of the American novel from the colonial period to the present, with major emphasis upon late eighteenth century and nineteenth century productions. Prereq., 12 hrs.

215, 216. EIGHTEENTH CENTURY LITERATURE (2, 2) The Staff
 Eng. 215 presents the prose and poetry of the age of Pope; Eng. 216, from Johnson to the close of the century. Prereq., 12 hrs.

217. DRAMA OF THE RESTORATION AND EIGHTEENTH CENTURY (2) The Staff
 Readings from the chief dramatists of the Restoration and the eighteenth century. Prereq., 12 hrs.; or 9 hrs., including 101, and 3 hrs. dramatic art.

218. EIGHTEENTH CENTURY ROMANTICISM (2) Heidler
 The course traces the beginnings of the movement with the Spenserians, Miltonic School, Chatterton, Ossian, the Gothic Romance, and others. Prereq., 12 hrs.

221. WORDSWORTH AND COLERIDGE (2) McQuiston
 A study of the principal poems of both poets and a less intensive survey of the rest of their work. Consideration of the poetical and philosophical theories of the two poets. Prereq., 12 hrs.

224. CONTINENTAL NOVEL (2) Lash
 Reading of European novels of the nineteenth century, chiefly, with emphasis on the Russian, French, German, and Scandinavian. Prereq., 12 hrs.

225. RECENT BRITISH AND AMERICAN POETRY (3) Foster
 A careful study of ten or twelve authors who have made distinctive contributions to the poetry of England and America. Prereq., 12 hrs.

226. AMERICAN LITERATURE (3) Foster
 A detailed study of two or three authors from Whitman to Frost with reference to their social and cultural backgrounds. Prereq., 12 hrs.

230. ENGLISH PROSE OF THE NINETEENTH CENTURY (3) Wray
 A study of the essayists and major prose writers of the Romantic and Victorian periods. Prereq., 12 hrs.

231. LATER AMERICAN LIFE AND LITERATURE (2) McQuiston
A study of the more important currents in American life and thought which have influenced the national literature since the Civil War. Prereq., 12 hrs.

232. EMERSON, THOREAU, AND THE CONCORD GROUP (2) Kirchner
A study of Emerson, Thoreau, Alcott, Fuller, and others whose lives and writings were influenced by that American form of idealism which has come to be known as Transcendentalism. Prereq., 12 hrs., including 111.

236. MODERN DRAMA (2) Peckham
A study of types and tendencies in British, Irish, and American drama since about 1890. A reading and discussion of plays by recent and contemporary dramatists. Among the authors considered are Pinero, Barrie, Galsworthy, Milne, Rice, Howard, Lawson, Barry, Wilder, Anderson, and Sherwood. Prereq., 12 hrs. or 9 hrs., including 101, and 3 hrs. dramatic art.

240. BYRON, SHELLEY, AND KEATS (2) Peckham
A study of the most important poems and the relation of the poets to their age. Prereq., 12 hrs.

242. HISTORY OF LITERARY CRITICISM (2) The Staff
A rapid study of the development of critical theories from ancient Greek times to the mid-nineteenth century. Prereq., 12 hrs.

245. TENNYSON AND BROWNING (3) Peckham
A study of the two major Victorian poets, their backgrounds, and some of their most representative poems. Prereq., 12 hrs.

250. BOOKS OF THE SEASON (2 or 3 as scheduled) Mockinnon
An extensive reading course in the best books of the season. Maximum credit in course, 4 hrs. Prereq., 12 hrs. or 9 hrs. and permission.

258. MIDDLE ENGLISH (3) The Staff
A course designed to acquaint the student with the literature of the Middle Ages (exclusive of Chaucer) together with the changing language. Prereq., 12 hrs.

270. SPENSER (2) Wray
A study of the poems of Spenser with emphasis on *The Faerie Queene*. Prereq., 12 hrs.

273. CHAUCER (3) Heidler
A careful study of the life and poetry of Chaucer by means of lectures, translations, and seminar reports. Prereq., 12 hrs.

275. ANGLO-SAXON (2 or 3 as scheduled) Thompson
A course in early English language and literature. Prereq., 12 hrs.

276. BEOWULF (2 or 3 as scheduled) Thompson
Reading and interpretation of the poem and consideration of its genesis, epic characteristics, and literary qualities. Prereq., 275.

277. THESIS WRITING

(1) Albaugh

A course for graduate students in all departments, with special attention to the form and organization of research papers in the field of interest. Prereq., 12 hrs.

280. STUDIES IN ENGLISH

(1 to 3) The Staff

Directed reading and research in English or American literature. Credit not to exceed three hours in any one semester. Maximum credit in course, 6 hrs. Prereq., 12 hrs. and permission.

395. THESIS

(1 to 8) The Staff

Prereq., permission.

FINANCE

Professors Armbruster, Hanson (chairman)

Associate Professors J. R. Taylor, Leavitt

Lecturer Wolfe

75. PERSONAL FINANCE

(2) Hanson, Leavitt

How to get the most for one's money. A practical course covering insurance, taxes, budgets, stocks and bonds, purchase of a home, borrowing money, investing money, etc. Not open to upperclassmen pursuing the Bachelor of Science in Commerce degree.

101. MONEY AND CREDIT

(3) Hanson, Leavitt

The elementary concepts of money, credit and exchange, and a historical survey of monetary systems with special emphasis on price stabilization, monetary reform, and bank credit expansion problems.

121. BUSINESS FINANCE

(3) Armbruster, Hanson, Taylor, Leavitt

The elements of business finance, the corporation, corporate securities, and financial plans.

142. CONSUMER FINANCING

(2) Hanson

A survey of the institutions other than commercial banks which are designed to furnish this type of financing. Prereq., 101 or permission.

156. ADVANCED BUSINESS FINANCE

(3) The Staff

The sale of securities, distribution of income, expansions and re-organizations. Prereq., 121.

175. INVESTMENT PRINCIPLES

(2 or 3 as scheduled) Wolfe

A study of various types of securities; investment tests, investment policies, methods of security analysis, and sources of information. Prereq., 121 or permission.

201. THE STOCK MARKET

(2) Hanson

The organization, operation, and regulation of stock exchanges, with particular reference to the New York Stock Exchange. Prereq., 101 and 121.

206. INVESTMENT ANALYSIS (2 or 3 as scheduled) Wolfe
An analytical approach to the formation of investment programs and the selection of specific securities. Prereq., 175.

212. CREDITS AND COLLECTIONS (2) Paynter
The principles, methods, and policies of mercantile and retail credit. Prereq., 101 and Ec. 102.

215. PROPERTY AND CASUALTY INSURANCE (2) Hanson, Taylor
The fundamental economics of property and casualty insurance. Various types of property and casualty insurance and problems arising out of their use; i.e., fire, smoke, windstorm, lightning, public liability, automobile, accident and health, hospitalization, etc. Prereq., Ec. 102.

216. LIFE INSURANCE (2) Hanson, Taylor
The fundamental economics of life insurance. The principles and practices of life insurance including types of contracts, group and industrial insurance, annuities, etc. Prereq., Ec. 102.

251. BANKING PRINCIPLES (3) Hanson, Leavitt
The theory and operation of commercial and central banking in the United States with special emphasis upon the economic effects of expansion and contraction of credit upon the economy. Prereq., 101 and Ec. 102.

252. INTERNATIONAL FINANCE (3) The Staff
An introduction to the financial institutions of other countries and their relationship to American financial institutions; includes the operation of central banks, world monetary standards, World Bank and Monetary Fund, international price relationships, foreign exchange, and foreign investments. Prereq., 101 and Ec. 102.

281. RESEARCH IN FINANCE (2 to 8) The Staff
Special studies in money, banking, or business finance. Prereq., 9 hrs., Ec. 102, and permission.

391. SEMINAR IN FINANCE (2 to 4) The Staff
Maximum credit in course, 10 hrs. Prereq., 9 hrs., Ec. 102, and permission.

395. THESIS (1 to 8) The Staff
Prereq., permission.
Additional course:
Ec. 215—Public Finance

FINE ARTS

General courses in the history and appreciation of the fine arts are open to all students who wish to broaden their knowledge of the field. Advanced courses are listed under the offerings of the various departments.

The minor requirements for the B.F.A. degree may be fulfilled by completing 24 hours in the following courses, including F. A. 17-18.

17-18. INTRODUCTION TO THE FINE ARTS

(3-3) Seigfred, Olpp

Analysis of the form, media, and content of the major arts stressing interrelationship of architecture, the dance, dramatic art, music, literature, and painting through recognition of common art factors.

121-122. HISTORY OF PAINTING AND SCULPTURE

(3-3) Olpp

Periods, styles, and great personalities in the history of painting and sculpture from early times to the present. Analysis of aesthetic qualities in masterpieces of art.

123-124. HISTORY OF MUSIC

(3-3) Peterson

Development of music from ancient times to the present. The outstanding characteristics of the various periods thoroughly illustrated by recordings and performances. Not open to students who have received credit in Mus. 5-6.

175-176. HISTORY OF ARCHITECTURE

(3-3) Denison

A general survey of the development of architecture with emphasis on environmental influences. Illustrated lectures.

179-180. HISTORY OF THE VISUAL THEATRE

(3-3) Lane, Robinson

Survey of theatrical production and acting during the most important periods in the history of the theatre. Development of the related arts of dance and the motion picture. Fee, \$2 for F. A. 180 only.

203-204. HISTORY OF ORATORY

(3-3) Staats

Study of the speeches of the outstanding orators, the circumstances under which they were delivered, and their conformance to aesthetic principles. Modern orations will be analyzed through the use of recordings.

301. INTRODUCTION TO GRADUATE WORK

(2) Kantner

A general survey at the graduate level of the major field stressing the history, purposes, problems, and interrelationships of the various phases. Selected literature, outstanding leaders and professional publications and organizations. Types of research, selection of a thesis problem, general principles of conduct of research, elementary consideration of statistical principles and terminology. Required, together with English 277, of all candidates for the M.F.A. or M.A. degrees in Dramatic Art and Speech unless excused on the basis of equivalent courses. Open only to graduate students in dramatic art and speech.

Additional courses:

See Architecture, Art, Dramatic Art, Music, Photography, Radio, and Speech and Speech Correction.

FRENCH—See Romance Languages

GEOGRAPHY AND GEOLOGY Professors Cooper, Dow (chairman)
Associate Professor Sturgeon
Acting Instructor Aukland

A major in the field of geography or geology may qualify for the positions of teacher, geographer, or geologist. Trained geographers and geologists are in demand in government bureaus, in the fields of conservation of natural resources, weather bureau work, and in teaching.

GEOGRAPHY

The major requirement in geography for the A.B. degree is 30 semester hours in approved departmental courses, including Geol. 1-2 or 125 and 126-127.

The major requirement in geography for the B.S. in Education degree is given on page 126.

3-4. ELEMENTS OF GEOGRAPHY (3-3) Cooper

Elementary courses in geography emphasizing the causal relationships between life activities and the geographic environment. Not open to juniors and seniors.

101. INDUSTRIAL AND COMMERCIAL GEOGRAPHY (3) Aukland, Dow

A study of the world's major products and their distribution and consumption. Not open to students who have had Ec. 15.

102. GEOGRAPHY OF ANGLO-AMERICA (3) Dow

The course develops in detail the geography of the natural resources of Anglo-America and the geographic influences which affect those resources.

105. GEOGRAPHY OF LATIN AMERICA (3) Cooper

The course develops in detail the geography of the natural resources of Latin America and the geographic influences which affect those resources.

108. GEOGRAPHY OF EUROPE (3) Dow

The course develops in detail the geography of the natural resources of Europe and the geographic influences which affect those resources.

112. GEOGRAPHY OF ASIA AND ITS ISLANDS (3) Dow

The course develops in detail the geography of the natural resources of Asia and its islands and the geographic influences which affect those resources.

131. GEOGRAPHY OF OHIO (2) Cooper

The geography of Ohio is developed from the regional point of view and by means of the problem method.

132. CONSERVATION OF NATURAL RESOURCES (3) Dow
A study of the vital problems of the conservation of soils, water, minerals, forests, wild life, and land use. The interrelations of these various factors, educational significance, and appreciation are emphasized. Field trips. Fee, \$2.

145. GEOGRAPHIC INFLUENCES IN AMERICAN HISTORY (3) Dow
A course developed to show the importance of geographic factors in history with special emphasis upon the history of the United States.

150. GEOGRAPHY AND ENVIRONMENT (3) Cooper
A course in the principles of geography. Those aspects of geography which have to do with the adjustments of man and the responses of plants and animals to natural environment throughout the world are studied. Not open to students who have had Geog. 4.

175. ELEMENTARY METEOROLOGY (3) Dow
Fundamentals of the weather elements such as temperature, pressure, moisture, winds, etc. Nature and behavior of storms. Fundamentals of air mass analysis. Weather map interpretation and construction. The Weather Bureau and its work. Special emphasis on aeronautical phases. 3 lec. and 1 lab. Fee, \$4.

202. WORLD WEATHER AND CLIMATE (2 or 3 as scheduled) Dow
Nature, causes, and significance of weather and climatic phenomena on a world-wide regional basis. Prereq., 6 hrs. including 175.

210. POLITICAL GEOGRAPHY (3) Dow
A study of the geography of boundary lines, of colonial policies, and of the geographic principles which influence international relations and problems. Prereq., 6 hrs.

215. CARTOGRAPHY AND GRAPHICS (1 or 2) The Staff
The elementary principles of map drawing and graph making. Prereq., 6 hrs., or 3 hrs. and 6 hrs. civil engineering.

282. FIELD STUDIES AND SPECIAL PROBLEMS IN GEOGRAPHY (1 to 4) The Staff
Supervised geographic studies of local areas or industries involving fundamentals of research. Prereq., 12 hrs. Fee, \$3.

GEOLOGY

The major requirement in geology for the B.S. degree is a minimum of 26 semester hours in approved departmental courses and Geog. 150. In addition, the following extra-departmental courses are required: Chem. 1-2 or 3-4, C. E. 10, 110, Math. 5, 6. It is recommended that students take Phys. 5, 6.

The major requirement for the A.B. degree is the same as for the B.S. degree except that Math. 6 is not required.

1-2. ELEMENTARY GEOLOGY (3-3) Aukland, Dow, Sturgeon

An introductory laboratory course in geology. Includes a study of present earth features, processes, and their significance; an introduction to the physiography of the United States and a brief outline of geologic history. Essential for geology majors and desirable as preparation for work in geography and general earth science. 2 lec., 2 lab., and field trips. Not open to juniors and seniors or students who have had Geol. 133. Fee, \$4 a semester.

125. PRINCIPLES OF GEOLOGY (3) Aukland, Dow, Sturgeon

A survey of physical geology and a brief introduction to historical geology for upperclassmen who have not taken Geol. 1-2. The course is concerned with the appreciation of geologic features and the agencies that produce them. 3 lec., 2 lab., with field trips. Fee, \$4.

126-127. HISTORICAL GEOLOGY (2-2) Sturgeon

History of the earth with special emphasis on the geologic development of North America and the evolution of life. First semester devoted to origin of earth and to Pre-Cambrian and Paleozoic eras; second semester to Mesozoic and Cenozoic eras. 2 lec., 1 lab., and field trips. Prereq., 2 or 125. Fee, \$2 a semester.

128. ELEMENTARY MINERALOGY (3) Aukland, Sturgeon

A study of minerals with emphasis on physical properties, crystal forms, classification, and identification. 2 lec., 2 lab., and field trips. Prereq., 2 or 125 and Chem. 1 or 3. Fee, \$4.

129. ELEMENTARY PETROLOGY (3) Aukland, Sturgeon

A study of rocks with emphasis on origin, composition, physical properties, classification, and identification. 2 lec., 2 lab., and field trips. Prereq., 128. Fee, \$4.

133. ENGINEERING GEOLOGY (3) Aukland, Sturgeon

A study of the principles, methods and materials of geology of value to engineers. 2 lec., 2 lab., and field trips. Not open to students who have had Geol. 1, 2, or 125. Fee, \$4.

203. ECONOMIC GEOLOGY (3) Aukland, Sturgeon

The study of the metallic and nonmetallic mineral resources of the earth's crust which are of use to mankind. 2 lec. and 2 lab. Prereq., 128 and 129. Fee, \$4.

214. PHYSIOGRAPHY (3) Aukland, Dow

An introduction to the study of geologic structures and their related surface features of the world, with particular emphasis on the physiography of North America. 2 lec., 2 lab., with field trips. Prereq., 6 hrs. Fee, \$4.

220. PRINCIPLES OF SEDIMENTATION AND STRATIGRAPHY (3) Sturgeon

Elements involved in the formation of sediments and in determining the succession and chronology of stratified rocks. 3 lec., 1 lab., and field trips. Prereq., 126-127, with 128 and 240 recommended. Fee, \$4.

221. STRUCTURAL GEOLOGY

(3) Aukland, Sturgeon

A study of the earth's architecture and of the diastrophic forces instrumental in the deformation of the earth's crust. Prereq., 2, with 126-127 recommended. 3 lec., 1 lab., and field trips. Fee, \$4.

225. GLACIAL GEOLOGY

(3) Aukland, Dow

Study of valley and continental glaciers and glaciation. 2 lec. and 2 lab., week-end field trips. Prereq., 2 or 126-127. Fee, \$5.

230. GEOLOGY OF OHIO

(2) The Staff

An introduction to the geology of Ohio emphasizing physiography, stratigraphy, and economic geology. 2 lec., week-end field trips. Prereq., 126-127. Fee, \$5.

240. PALEONTOLOGY

(4) Sturgeon

A study of fossils with emphasis on the invertebrates, their morphology, classification, and geologic and geographic distribution. 2 lec., 4 lab., and field trips. Prereq., 126-127 or Zool. 226. Fee, \$5.

241. INDEX FOSSILS OF NORTH AMERICA

(2) Sturgeon

Identification and classification of common North American index invertebrate fossils. 1 lec., 3 lab., and field trips. Prereq., 240. Fee, \$5.

283. FIELD STUDIES AND SPECIAL PROBLEMS IN GEOLOGY (1 to 4)

The Staff

Supervised geologic studies of local areas or geologic problems involving fundamentals of research. Prereq., 12 hrs. Fee, \$3.

GEOLOGY—See Geography and Geology**GERMAN**

Professor Hess (chairman)

Associate Professor Krauss

Acting Assistant Professor Hammer

Acting Instructor Goettler

The major requirement in German for the A.B. degree is a minimum of 20 hours above course 1-2, exclusive of 165g, and including 109-110, and 6 hours in courses 201-202, 211-212, or 213-214.

The major requirement in German for the B.S. in Education degree is given on page 126.

1-2. BEGINNING GERMAN

(4-4) The Staff

The course includes instruction in the fundamental grammatical principles, drill in pronunciation, conversation, and the reading of prose.

100. INTERMEDIATE GERMAN

(3) The Staff

Grammar review and systematic training in pronunciation, reading, and translation. Some scientific German will be read on request. The course fits the needs of those desiring either semester of second-year German, and it may be taken either before or after Ger. 101 without duplication. Prereq., 2 or 2 yrs. high school German.

101-102. INTERMEDIATE GERMAN

(4-4) The Staff

The course includes the study of various short poems and stories of literary excellence, grammatical review, and work in oral and written composition. The drama, especially *Wilhelm Tell*, is included in Ger. 102. Prereq., 2 or 2 yrs. high school German.

105, 106. SCIENTIFIC GERMAN

(2, 2) Krauss, Goettler

A reading course designed to give the student familiarity with German scientific terms. Prereq., 101 or 3 yrs. high school German.

108. GERMAN FOR ORAL PRACTICE (CONVERSATION) (3) Hess

A course in which German pronunciation, conversation, and idioms are stressed. The basic text is Appelt and Hanhardt's *Deutsche Gespraechs*, which will be supplemented by charts, pictures, and mimeographed sheets provided by the teacher. Prereq., 101 or 3 yrs. high school German.

109-110. GERMAN GRAMMAR AND COMPOSITION (2-2) Hess

A thorough review of German grammar with drill in formal and free composition; also considerable practice in German conversation. Required of all German majors and those students planning to teach German. Prereq., 102 or 3 yrs. high school German, or permission.

121. MODERN GERMAN PROSE (2) Hess, Hammer

A course to develop an easy ability in reading German. Selected prose readings from contemporary authors and current journals dealing with Germany's cultural and political institutions, as well as its history, geography, and economic problems. For all students interested in modern languages or the social sciences, especially those intending to go into government service. Prereq., 102, or 101 with a grade of A, or 3 yrs. high school German.

165g. TEACHING OF GERMAN (2) Hess

(Same as Ed. 165g) Recent literature on language methodology, phonetics, practical drill in pronunciation, as well as the development of lesson plans. Open only to fourth-year German students by special permission.

201, 202. SURVEY OF GERMAN LITERATURE (3, 3) Hess

Prereq., 102.

211, 212. MODERN GERMAN DRAMA (3, 3) Hess

A study of the German drama of the nineteenth century and the reading of the more important plays connected with the various movements. Prereq., 102 or 4 yrs. high school German.

213. CLASSICAL GERMAN DRAMA (3) Hess

Plays of Lessing, Goethe, and Schiller are studied in relation to German classicism. Prereq., 102.

214. GOETHE'S FAUST (3) Hess

A detailed study of Goethe's greatest contribution to modern thought and life. Prereq., 213.

219. THE GERMAN SHORT STORY, 1800-1850 (2) Krauss
 Reading of representative short stories from Romanticism to Poetic Realism with discussion of the literary movements. Includes Kleist, Eichendorff, Hoffmann, Chamisso, Droste von Huelshoff. Prereq., 102.

220. THE GERMAN SHORT STORY, 1850-1900 (2) Krauss
 Reading of representative short stories of Poetic Realism with discussion of this literary movement. Includes Storm, Stifter, Heyse, Keller, Meyer. Prereq., 102.

221. CONTEMPORARY GERMAN SHORT STORY (2) Krauss
 Reading of representative stories from Naturalism to the New Realism with discussion of the various literary movements. The course may be taken either before or after Ger. 219, 220 since it deals chiefly with the *Novelle* of the twentieth century. Prereq., 102.

222. WAGNER'S POETICAL WORKS (2) Krauss
 Richard Wagner's principal music dramas will be read and discussed for their literary and dramatic content. Musical highlights will be illustrated with phonograph records. Prereq., 102.

223. GERMAN LYRICS AND BALLADS (2) Krauss
 Reading and interpretations of the German lyrics and ballads since Goethe. Prereq., 102.

395. THESIS (1 to 8) The Staff
 Prereq., permission.

GOVERNMENT Professor E. B. Smith
 Assistant Professors Gusteson, E. M. Collins (acting chairman)

The work of the Department of Government is planned to meet the needs of those who desire to understand the organization and functions of government, to promote active participation in the duties of citizenship, to prepare students to enter government service, to provide training for prelaw students, and to train teachers of government and civics.

1, 2. AMERICAN GOVERNMENT (3, 3) Smith, Gusteson, Collins
 The American political system, including national, state, and local governments. Govt. 1 includes the political and constitutional development, the organization and the functioning of the national government. Govt. 2 is concerned with the organization and functioning of state and local governments and may be taken before Govt. 1.

101, 102. COMPARATIVE GOVERNMENT (3, 3) Smith, Gusteson, Collins
 A comparison of the American, European, and Oriental systems of government, including organization, procedure, popular representation, and the effect upon the social and economic life of the people.

105. CURRENT POLITICAL AND SOCIAL PROBLEMS (2 or 3 as scheduled) Smith

A consideration of current problems of a political, social, and economic nature to develop an understanding of what is happening and to establish the habit of reading regularly newspapers and periodicals.

110. AMERICAN DEMOCRACY (2 or 3 as scheduled) Smith

The development of democracy in the United States, the opportunities and obligations of democratic citizenship, intelligent and effective participation in democratic affairs, the threat of the police state to human freedoms, and the preservation of free society in the United States.

201, 202. AMERICAN CONSTITUTIONAL LAW (2, 2) Gusteson

Principles underlying American constitutional government as seen in leading cases, with special reference to interpretation of the United States Constitution. Prereq., 6 hrs. government or history.

203. MUNICIPAL GOVERNMENT AND ADMINISTRATION

(2 or 3 as scheduled) Collins

The creation and legal powers of cities, municipal elections and political bosses; an analysis of the administrative functions and problems of city government: personnel, finance, police, public utility regulation and ownership. Prereq., 6 hrs.

205. AMERICAN POLITICAL PARTIES (2 or 3 as scheduled) Gusteson

The origin and growth of national parties, the organization and methods of parties, the influence of economic and social conditions on party policy, the position and functions of the party system in democracies. Prereq., 6 hrs.

208. LEGISLATURES AND LEGISLATIVE PROCESSES

(2 or 3 as scheduled) Gusteson

Major problems of representative government with respect to legislative assemblies. Analysis of structure, organization, and procedures; problems of representation; relationship between the legislature, the executive, courts, and the people. Prereq., 6 hrs.

209. LAW ENFORCEMENT (2 or 3 as scheduled) Gusteson

Survey and analysis of the problems of the American policing, prosecutory, judicial, and correctional system. Emphasis on both policy making and administration. Prereq., 6 hrs.

216. INTERNATIONAL RELATIONS (2 or 3 as scheduled) Smith

Basic factors involved in world politics, including the modern state system, nationalism, and militarism, the evolution of international relations, forces and conditions affecting international relations, and the formulation of national foreign policies. Prereq., 6 hrs. government or history.

217. CURRENT INTERNATIONAL PROBLEMS (2 or 3 as scheduled) Smith

The nonhistorical study of international relations, international problems arising from the conflict of national foreign policies, programs for national security, efforts toward world political and economic order, contemporary policies of the Great Powers, and reconstruction following the Second World War. Prereq., 6 hrs. government or history.

223, 224. INTERNATIONAL LAW (2 or 3, 2 or 3 as scheduled) Collins
The development of the principles of international law governing the community of nations, their present status and unsettled features, agencies for interpreting and administering international law. Prereq., 6 hrs.

241. AMERICAN FOREIGN POLICY (2 or 3 as scheduled) Collins
The development of American foreign policy, the constitutional basis, control by the President, the State Department, diplomatic and consular practices, the military and foreign service, international information service, atomic energy, and financial problems. Prereq., 6 hrs. government or history.

243. AMERICAN POLITICAL THOUGHT (2 or 3 as scheduled) Smith
The origin and development of political ideas in the United States, growth of democratic principles from the colonial times to 1865, an analysis of recent trends in American political thought, and the effect of social and economic changes upon political thinking. Prereq., 6 hrs. or 9 hrs. history.

244. RECENT POLITICAL THOUGHT (2 or 3 as scheduled) Smith
Recent political theories basic to political and social institutions: individualism, collectivism, fascism, and democracy; emphasis on the European version of democracy, totalitarianism of the communist and fascist states, and the relation of the individual to political authority. Prereq., 6 hrs. or 6 hrs. European history.

248. PUBLIC ADMINISTRATION (2 or 3 as scheduled) Collins
The theory and practice of administrative organization, and control of administrative action, with emphasis on financial and public personnel administration. Basic course for preparation for civil service examinations. Prereq., 6 hrs.

249. ADMINISTRATIVE LAW (2 or 3 as scheduled) Collins
Organization, functions, procedures, and administrative problems of selected national regulatory agencies; principles affecting administrative discretion; administrative power over private rights; enforcement and judicial control of administrative action. Prereq., 6 hrs.

298. PROBLEMS IN GOVERNMENT (1 to 3) The Staff
Research or directed reading based upon the student's special interest. Maximum credit in course, 6 hrs. Prereq., 15 hrs. and permission.

301. RESEARCH IN GOVERNMENT (1 to 3) The Staff
Maximum credit in course, 6 hrs. Prereq., 15 hrs. and permission.

391. SEMINAR IN GOVERNMENT (1 to 3) The Staff
Maximum credit in course, 6 hrs. Prereq., 15 hrs.

395. THESIS (1 to 8) The Staff
Prereq., permission.

GREEK—See Classical Languages

HEALTH—See Physical Education and Athletics

HISTORY

Professors Volwiler (chairman), Whitehouse
 Associate Professors Morrison, Gustavson, Cady
 Assistant Professors Murphy, Roberts, Kershner

The major requirement in history for the A.B. degree consists of a minimum of 24 hours, including Hist. 1, 2, 101, 102, and at least two courses in or above the 200 group, selected from more than one field of history. Hist. 1, 2 should be taken during the freshman year.

The major requirement in history for the B.S. in Education degree is given on page 127.

Graduate students majoring in history are required to have Hist. 301.

1, 2. WESTERN CIVILIZATION IN MODERN TIMES

(3, 3) Volwiler, Gustavson, Cady

Hist. 1 covers the period from 1450 to 1815 and stresses the Renaissance, the Protestant Reformation, the agricultural and commercial revolutions, European expansion in Africa, Asia and America, the balance of power, the French Revolution and the Napoleonic Era. Hist. 2 places emphasis on the industrial revolution, the unification of Italy and Germany, modern imperialism in Africa and Asia, the rise of Japan, the United States as a world power, World War I, the rise of totalitarian states, World War II, and efforts toward world organization.

101, 102. HISTORY OF THE UNITED STATES

(3, 3) Kershner, Volwiler

A survey course covering the political, diplomatic, social, and economic development of American history. Hist. 101 covers the period to 1865; Hist. 102, the period from 1865 to the present.

105. HISTORY OF OHIO

(2 or 3 as scheduled) Morrison

110. THE OLD SOUTH

(3) Morrison

A study of the plantation regime in the ante bellum South, with emphasis on the daily life on the various types of plantations.

111. THE NEW SOUTH

(3) Morrison

Social, economic, and political life in the South since 1865, rural conditions, industrial development, labor conditions, the problem of white and black, educational progress, the solid South in politics, the South today.

115. ANCIENT HISTORY

(3) Murphy

120. MEDIEVAL HISTORY

(3) Gustavson

A study of social, economic, and cultural forces of the Middle Ages with emphasis on the institutional and cultural life from the fall of Rome to the Renaissance.

125. ENGLISH HISTORY TO 1688

(3) Cady

126. ENGLISH HISTORY SINCE 1688

(3) Cady

145. LATIN AMERICAN HISTORY

(3) Whitehouse

Emphasis will be placed on the national rather than the colonial period.

150. THE FAR EAST

(3) Cady

Geographical factors; political and cultural traditions of historic China and Japan; attempted adjustments to the impact of the West in the nineteenth century; collapse of Manchu China; Japanese imperialism culminating in World War II; the postwar Far Eastern scene, including Southeast Asia.

169h. TEACHING OF THE SOCIAL STUDIES IN JUNIOR**AND SENIOR HIGH SCHOOLS**

(2) Roberts

(Same as Ed. 169h) The nature, development, purpose, and value of the social studies, with emphasis on methods and techniques of instruction in this field. Problems of correlation, fusion, and integration of the social studies in the modern secondary curriculum will be given special attention. Prereq., 9 hrs. social science.

201. COLONIAL AMERICA

(2) Kershner

The discovery and colonization of America, relation of the colonies to England, and the daily life of colonial Americans. Prereq., 6 hrs.

202. THE REVOLUTIONARY ERA

(3) Kershner

An intensive study of the causes of the Revolution, the struggle for independence, the movement for a new government, and the framing of the Constitution. Prereq., 6 hrs.

204. FORMATION OF THE UNION, 1789-1829

(3) Kershner

The shaping of America's political, social, and economic institutions, constitutional development, and traditional foreign policy under the Founding Fathers and the exponents of Jeffersonian democracy. Prereq., 6 hrs.

210. SECTIONAL CONTROVERSY, 1829-1850

(2) Morrison

Slavery and political controversy, rise of the common man, rural conditions, transportation, immigration, education, the factory system, reform agitation, territorial annexations, growth of nationality. Prereq., 6 hrs.

212. THE UNITED STATES, 1850-1877

(3) Morrison

The sections of the United States in 1850, forces leading to war, the great conflict; Reconstruction, its background and development; restoration of home rule in the South. Prereq., 6 hrs.

215. FOUNDATIONS OF TWENTIETH CENTURY UNITED**STATES, 1877-1900**

(3) Volwiler

Social and intellectual conditions, agrarian unrest, rise of large corporations and their regulation, railroad building, tariff policies during the Harrison-Cleveland era, the Spanish-American War, and the drift toward imperialism and world power. Prereq., 6 hrs.

220. THE UNITED STATES SINCE 1900 (3) Morrison
Social conditions, agriculture, business, transportation, communication, labor, imperialism and foreign trade, trends toward state capitalism and regulation, new governmental agencies, political changes, the new outlook. Prereq., 6 hrs.

225. THE WESTWARD MOVEMENT (3) Volwiler
Expansion from the Atlantic Coast to the Pacific. Explorations, Indian trade, land policies, pioneer life, territorial acquisitions and state making, trails and railroads to the Far West, rise of cowboy land, types of later frontiers, and influence of the West upon American ideals and institutions. Prereq., 6 hrs.

230. SOCIAL AND CULTURAL HISTORY OF THE UNITED STATES (3) Kershner
Prereq., 6 hrs.

235. STATESMEN OF THE UNITED STATES (2 or 3 as scheduled) Morrison
Prereq., 6 hrs.

240. HISTORY OF CANADA (2) Morrison
Prereq., 6 hrs.

245. ENGLISH CONSTITUTIONAL HISTORY TO 1485 (3) Cady
The origin and early development of English legal institutions, parliamentary monarchy, and the foundations of English law. This course is especially helpful for prelegal students. Prereq., 6 hrs.

246. ENGLISH CONSTITUTIONAL HISTORY SINCE 1485 (3) Cady
A study of the political and legal evolution of the modern English state, with special emphasis upon basic concepts of law and constitutional forms and precedents. Prereq., 6 hrs.

250. THE BRITISH EMPIRE (3) Cady
The evolution of the Empire to the twentieth century, with emphasis on the growth of crown colonies, the development of colonial policy and its reform, and the growth of nationalism in the self-governing colonies and India. Prereq., 6 hrs.

251. THE BRITISH EMPIRE (3) Cady
Recent developments in the British Empire, including a survey of its organization and structure and the evolution of the British Commonwealth of Nations. Prereq., 6 hrs.

255. LEADERS IN LATIN AMERICAN HISTORY (2) Whitehouse
Prereq., 6 hrs., including 145 or permission.

257. LATIN AMERICA AND THE UNITED STATES (2 or 3 as scheduled) Whitehouse
A topical treatment of the diplomatic relations between the United States and the Latin American countries. Prereq., 6 hrs.

260. THE RENAISSANCE (2) Gustavson
Prereq., 6 hrs.

262. THE REFORMATION (2) Gustavson
Prereq., 6 hrs.

265. FRENCH REVOLUTION (3) Gustavson
An intensive study, within narrow time limits, of such historical factors as causation, influence of ideology, institutional organization, and the role of the individual in a great social upheaval. Prereq., 9 hrs.

270. EUROPE FROM 1870 TO 1919 (3) Gustavson
The development of England, France, Germany, Italy, and Russia; a study of the historical setting for an era of social upheaval and World Wars. Prereq., 6 hrs.

272. EUROPE SINCE 1919 (3) Gustavson
The twenty-year armistice, World War II and present problems. Prereq., 6 hrs.

275. HISTORY OF RUSSIA (3) Gustavson
A survey from the earliest times to the present. The Russian background of communist ideas, organization, and practices is stressed. Prereq., 6 hrs.

285. IMPERIALISM AND WORLD POLITICS (3) Volwiler
Types of imperialism; empire building during the nineteenth and twentieth centuries by Russia, Japan, United States, Great Britain, France, Germany, and Italy. Prereq., 6 hrs.

290. REPRESENTATIVE HISTORIANS AND THEIR WRITINGS (2 or 3 as scheduled) Volwiler
Lectures and discussions of typical historians from the time of Herodotus with readings from their masterpieces to illustrate schools of interpretation, philosophies of history, and the development of historical writing. Prereq., 12 hrs.

298. PROBLEMS IN HISTORY (1 to 3) The Staff
Intensive individual work either in research or in systematic reading along the lines of the student's special interest under the supervision of a member of the staff. Maximum credit in course, 6 hrs. Prereq., 15 hrs. and permission.

301. HISTORIOGRAPHY AND METHODOLOGY (2 or 3 as scheduled) Volwiler
An introduction to the technique of historical investigation with practice in historical criticism and writing. Prereq., 15 hrs.

391. SEMINAR IN HISTORY (1 to 3) The Staff
Reports based upon original research with group discussion and criticism. Maximum credit in course, 6 hrs. Prereq., 15 hrs. and permission.

395. THESIS (1 to 8) The Staff
Prereq., permission.

HOME ECONOMICS

Professors Justin, V. M. Roberts
 Associate Professors Patterson, Morse, Miller
 Assistant Professors Druggan*, Kidd, Macauley
 Instructors Davis, Birk, Pease
 Acting Instructor L. J. Calvin

The School of Home Economics offers work in the following fields:
 (1) Clothing and Textiles, (2) Child Development and Family Life,
 (3) Foods and Nutrition, (4) Home Economics Education, and (5)
 Home Furnishing, Equipment, and Management.

Basic courses in each area of home economics are set up with emphasis directed toward home and family living. Students who are majoring in other departments, but desire training for homemaking may elect any of the basic courses (see page 87).

Students majoring in home economics take the basic courses during the first two years and follow a professional curriculum during the junior and senior years. Requirements for a Bachelor of Science in Home Economics degree are indicated on page 86.

GENERAL HOME ECONOMICS

51. ORIENTATION IN HOME ECONOMICS

(1) Roberts assisted by specialists in each field

During the first half of the semester emphasis is placed on personal development and the many problems confronting the college freshman. The latter half of the course is concerned with vocational testing, guidance, and counseling. The value of home economics for home and family living and the various opportunities for careers in the field are presented. Fee, \$1.

72. HOME NURSING AND FAMILY HEALTH

(2) Druggan

Training in simple procedures in the care of the sick and minor accidents in the home. A study of disease prevention and health promotion for the family.

291. SEMINAR IN HOME ECONOMICS

(1 or 2) The Staff

Prereq., 18 hrs., and permission.

395. THESIS

(1 to 8) The Staff

Prereq., permission.

CHILD DEVELOPMENT AND FAMILY LIFE

5. GROWTH AND DEVELOPMENT OF THE CHILD

(3) Pease

A study of the physical, emotional, social and intellectual development of the child from conception through adolescence. The home environment, the care, and the guidance which foster the total development of the child will be stressed. Case studies of actual situations per-

*Part-time teaching in Home Economics.

taining to the development of the child will be used for interpretation and discussion. 2 lec., 1 hr. observation in Nursery School, 1 hr. conference. Fee, \$3.

6. FAMILY LIVING

(3) Pease

The problems confronting young people in establishing a family and in meeting the needs of individual members in the changing cycle of family life. The reinforcement the family may secure through interactions with the church, the school, and the community. This course is taught primarily by the case system; i.e., by class discussion and interpretation of actual family situations. 2 lec., 2 lab. Fee, \$3.

272. CHILD DEVELOPMENT

(2) Justin, Pease

The course deals with the social and emotional development of the child and with parental guidance techniques which would make for mental health of the family members. 1 lec., 1 conference, and 1 hr. nursery school observation. Prereq., for home economics majors, 171; for non-majors, 171 or 6 hrs. psychology and/or sociology. Fee, \$3.

273. FAMILY RELATIONSHIPS

(3) Justin

A study of successful family functioning as it meets the needs of individual members of the family in the changing cycle of family life; the reinforcement the family may secure through interaction with the church, the school and the community. Prereq., for home economics majors, 272; for non-majors, 6 hrs. sociology and/or psychology.

277. TECHNIQUES WITH YOUNG CHILDREN

(3) Justin, Pease

Consideration of the techniques of guidance of nursery school children, with emphasis on emotional and social development of the child and the effect of family attitudes on behavior. 1 lec., 1 hr. conference, and 3 hrs. laboratory at Nursery School. Prereq., 272 or 5 and 6 or Psych. 1 and H. Ec. 5. Fee, \$3.

278. ADMINISTRATION OF GROUP CARE OF YOUNG CHILDREN (3) Justin

Discussion of the problems arising in the organization and administration of nursery school. Prereq., 272, or 5 and 6.

279. PROBLEMS IN GUIDANCE OF NURSERY SCHOOL CHILDREN

(2 to 4) Justin, Pease

An intensive study of some phase of child development or guidance. Techniques of handling young children is learned through observation and participation in the Nursery School. Required of senior students who intend to go into nursery school work. Maximum credit in course, 6 hrs. Prereq., 277 or 6 hrs. psychology and permission. Fee, \$3.

377. SPECIAL PROBLEMS IN FAMILY RELATIONSHIPS

(2 or 3) Justin

An intensive study of a problem in family relationships. Maximum credit in course, 6 hrs. Prereq., 5 and 6.

379. SPECIAL PROBLEMS IN CHILD DEVELOPMENT

(2 or 3) Justin

An intensive study of a phase of child development or a problem in child guidance. The Nursery School may be used as a laboratory if desired. Maximum credit in course, 6 hrs. Prereq., 272, or 5 and 6, or 6 hrs. psychology and permission. Fee, \$3.

CLOTHING AND TEXTILES

3-4. CLOTHING AND TEXTILES (3-3) Morse, Kidd, Calvin

A basic course in clothing from the standpoints of selection, textile suitability, and construction. Attention is given to self analysis. Design, color, care, and cost in relation to the wardrobe are studied. 1 lec., 4 lab. Fee, \$3 a semester.

110. TEXTILES (3) Morse, Kidd

A basic textile course involving the study of textile fibers and of the construction, processing, use and care of fabrics. 2 lec. and 2 lab. Fee, \$3.

211. ECONOMICS OF TEXTILES AND CLOTHING (2) Kidd

A study of the production, distribution, and qualities of textiles and clothing. Problems on lingerie, hosiery, furs, gloves, shoes, etc. Prereq., 11 and 110; for non-majors, 110 and 3 hrs. economics.

212. DESIGN AND CONSTRUCTION WITH TEXTILES (3) Morse

The use of fabrics and yarns in original designs for clothing, accessories, slip covers, draperies, table linens, etc. Prereq., 11 and 110, or 3 and 4. 1 lec. and 4 lab. Offered in alternate years.

215. HISTORY OF COSTUME AND TEXTILES (2) Morse

Study of costume and textiles through the ages as a basis for the understanding and appreciation of present-day costumes. Prereq., 11, and 110, or 3 and 4.

216. CLOTHING DESIGN AND CONSTRUCTION (3) Morse

Two dresses are designed, draped, and constructed. One tailoring problem is given. 6 lab. Prereq., 11 and 110, or 3 and 4. Fee, \$3.

218. ADVANCED TEXTILES (3) Morse, Kidd

Physical and chemical examination of fibers and fabrics. Problems in the comparison and evaluation of fabrics. 1 lec. and 4 lab. Prereq., 110 and 3 hrs. chemistry. Fee, \$3.

219. PROBLEMS IN TEXTILES AND CLOTHING (1 to 3) Morse, Kidd

Students are required to plan and complete one or more problems related to textiles, clothing, or furnishings. Maximum credit in course, 6 hrs. Prereq., 6 hrs. and permission.

FOODS AND NUTRITION

1-2. FOODS, NUTRITION AND MEAL PLANNING (3-3) Miller, Calvin

Aspects of food selection, buying, preparation, meal planning, and serving from the viewpoint of the homemaker. Embodies the management of time and energy in meal preparation and serving in consideration of the total responsibilities of the homemaker. The care and use of kitchen utensils and equipment and of table appointments will be stressed. The aesthetic as well as nutritive value of individual dishes and meals will be studied. 1 lec., 1 discussion, 4 lab. Fee, \$5 a semester.

23. ELEMENTARY NUTRITION

(1) Patterson

Essentials of nutrition with emphasis placed on practical aspects of diet and the relation to human health. To help teachers understand health problems related to nutrition. Meets the requirements for obtaining a Red Cross Certificate in Nutrition.

122. FOOD PRESERVATION

(2) Miller

A study of methods of home preservation of foods and the factors affecting palatability and retention of nutrients. Laboratory experience in preparation of processed foods as well as preservation of fresh foods. Offered in alternate years. Prereq., 1 and 2. Fee, \$5.

123. ESSENTIALS OF NUTRITION

(3) Macauley

A study of the nutrients essential in human nutrition, how they function and their occurrence in foodstuffs. Practical problems directed toward the selection of adequate diets and the planning of normal diets at various cost levels. Meets the requirements for obtaining a Red Cross Certificate in Nutrition. An elective course for men and women. 2 lec. and 2 lab. Fee, \$3.

222. EXPERIMENTAL COOKERY

(3) Miller

A study of food preparation from the chemical and physical standpoint. Group and individual experiments on selected problems. A survey of the literature. Oral and written reports. Prereq., 1 and 2, and Chem. 113. 1 lec. and 4 lab. Fee, \$5.

225. NUTRITION

(3) Macauley, Roberts

Fundamental principles of nutrition based upon the nutritive value of foods and nutritive requirements of man. 2 lec. and 2 lab. Prereq., Chem. 113, Zool. 135. Fee, \$3.

226. ADVANCED NUTRITION

(3) Miller, Macauley

Applications of principles of nutrition to the feeding of individuals and families under varying physiological, economic, and social conditions. 2 lec. and 2 lab. Prereq., 1 and 2. Fee, \$3.

227. QUANTITY COOKERY

(3) Macauley

A study of the preparation and serving of foods in large quantities. Use of modern equipment. Laboratory practice in the cafeteria and residence halls of Ohio University. Prereq., 1 and 2.

228. RECENT DEVELOPMENTS IN FOODS AND

NUTRITION (Summer sessions only)

(3) Roberts

Reports, discussions, and reviews of scientific literature. Prereq., 1 and 2.

229. NUTRITION IN DISEASE

(2) Roberts, Macauley

The use of diet in the prevention and treatment of disease. Problems in planning and preparing therapeutic diets. 1 lec. and 2 lab. Prereq., 226. Fee, \$3.

240. PROBLEMS IN FOODS AND NUTRITION (2 or 3) Roberts, Miller, Macauley

Students are required to plan and complete a problem in some phase of nutrition, experimental foods, or food or nutrition chemistry. Maximum credit in course, 6 hrs. Prereq., 9 hrs. foods and nutrition and permission. Fee, \$5.

241. NUTRITION WORK WITH CHILDREN (2) Roberts

Relation of nutrition to growth and development of children. Methods for improving the nutrition of children through the school and other organizations. 1 lec. and 2 lab. Prereq., 1 and 2. Fee, \$3. Offered in 1950-51 and alternate years.

242. INSTITUTION MARKETING AND MEAL MANAGEMENT (2) Macauley

Studies in production, distribution and storage of food supplies to serve as a basis for the purchase of such commodities for quantity use. Record keeping involved in menu planning, food orders and service. 1 lec. and 2 lab. Prereq., 227. Fee, \$2.

243. INSTITUTION EQUIPMENT AND FURNISHINGS (2) Macauley

Kitchen planning and selection of equipment including materials, construction, installation, operation, care and relative cost; floor plans and specifications. Recommended for students interested in the management of food service establishments and teachers anticipating school lunchroom management. 1 lec. and 2 lab. Prereq., 227. Fee, \$2.

248. INSTITUTION MANAGEMENT (3) Macauley

Principles of organization and administration which apply to food units in school lunch rooms, public and private institutions. Administration of labor; standards of work; cost control. Recommended for teachers interested in school lunchrooms and students interested in cafeteria, restaurant and hospital management. Prereq., 227.

333. SPECIAL PROBLEMS IN CHEMISTRY OF FOODS AND NUTRITION

(2 or 3) Miller

An intensive study of a phase of food chemistry or nutrition. Maximum credit in course, 6 hrs. Prereq., 226 and Chem. 113. Fee, \$5.

HOME ECONOMICS EDUCATION

55, 56. HOME ECONOMICS FOR THE ELEMENTARY SCHOOL (2, 2) Patterson

This course gives consideration to the problems related to home economics at the elementary level and offers suggestions for procedures and practices in solving them. Four hours each week for class discussion, observation, and laboratory work. Fee, \$3 a semester.

168h. TEACHING OF HOME ECONOMICS (3) Patterson

(Same as Ed. 168h) Organization, methods, classroom procedures, evaluation, and teaching aids in home economics for secondary schools. Required of senior home economics students who intend to teach home economics. Concurrent, Education 182 and 185. Prereq., for minors, 15 hrs. home economics and permission. Fee, \$3.

250h. PROBLEMS IN THE TEACHING OF HOME ECONOMICS

(1 to 3) Patterson

(Same as Ed. 250h) Opportunity for individual selection of problems. Maximum credit in course, 6 hrs. Prereq., 18 hrs. and 168h.

268. VOCATIONAL HOME ECONOMICS (Summer sessions only) (3) Patterson

(Same as Ed. 268) History and philosophy of vocational homemaking education. Policies and contemporary trends in this field. Study of procedures and sources of materials. Observations arranged. Prereq., 168h or teaching experience in home economics.

268a. HOME ECONOMICS IN ADULT EDUCATION

(Summer sessions only) (3) Patterson

Organization procedures, curriculum materials, and methods of conducting adult education groups in the field of education for home and family life. Prereq., 18 hrs. home economics.

268b. DEMONSTRATION TECHNIQUES

(2) Calvin

Practical experience in the demonstration of foods, equipment, or clothing. Planned for teachers and for those going into foods or public utility work. 4 lab. Prereq., 12 hrs. Fee, \$3. Offered in 1950-51 and alternate years.

350h. SPECIAL PROBLEMS IN THE TEACHING OF HOME ECONOMICS

(2 or 3) Patterson

Intensive study of some phase of home economics education. Maximum credit in course, 6 hrs. Prereq., teaching experience in home economics.

HOME FURNISHING, EQUIPMENT, AND MANAGEMENT**7. THE HOME AND ITS FURNISHINGS**

(2) Kidd

A practical and aesthetic study in house furnishings including basic art qualities, styles of houses and interiors, analysis of modern floor plans, furniture selection and arrangement, lighting and kitchen planning. Emphasis is placed on use of color, backgrounds, textiles, rugs, linens, china, glass, silver, and other accessories for the home. 4 lab. Fee, \$3.

8. SELECTION AND PURCHASE OF CONSUMERS' GOODS

(2) Birk

Special attention will be given to the consumer and her wants; guides to the recognition of quality; selection of household equipment; informative labelling; fair prices; aids for the education of the household buyer; how a household buyer may help herself; and present day problems of the consumer. Fee, \$3.

131. HOUSE SELECTION AND FURNISHING

(3) Kidd

The house and its furnishings considered in relation to artistic, economic, and social factors affecting choice. This course will be offered in two sections; 131a for majors and 131b for non-majors. 2 lec. and 2 lab. Prereq., home economics majors, Design 12 or 91 and H. Ec. 11; for non-majors, sophomore standing. Fee, \$3.

231. ECONOMICS OF FURNISHINGS (2) Kidd
A study of the production, distribution, and qualities of furnishings. Problems on china, glass, silver, furniture, bedding, rugs, etc. Prereq., 110, 131; for non-majors, 110, 3 hrs. economics.

234. ADVANCED EQUIPMENT (3) Birk
Household operating and equipment problems. A critical analysis of the use of equipment to establish standards for effective use. Survey of agencies offering services in the field of homemaking. Specialists in related sciences and manufacturing fields cooperate. Prereq., 2, and 8 or 105. Fee, \$3. Offered in 1950-51 and alternate years.

251. HOME MANAGEMENT (2) Birk
A study of the economic use of time, energy, and money in the successful functioning of home from the viewpoint of the satisfaction of members of the family. Prereq., for undergraduate credit, 2, and 8 or 105, or 6 hrs. sociology; for graduate credit, 2, and 8 or 105.

253. HOME MANAGEMENT LABORATORY (3) Birk
Residence in the home management house for one-half semester provides experience in the use of human and material resources of the family for the optimum development of its members. A charge is made to cover room and board during residence in the house. Prereq., 2, and 8 or 105, 251 or with 251, and permission.

256. ECONOMICS OF CONSUMPTION (3) Birk
Principles, nature, and importance of consumption. Relationship of consumption to production and general welfare. Bases and practices of choice making and market selection. Prereq., 6 hrs. home economics or 6 hrs. economics and sociology. (Not offered after 1950-1951.)

258. PROBLEMS IN FAMILY ECONOMICS (1 to 3) Birk
Individual investigation of family income, expenditures, and standards of living. Minimum standards of living emphasized for majors in social work. Prereq., 256 or 6 hrs. sociology and permission.

352. SPECIAL PROBLEMS IN HOME MANAGEMENT (2 or 3) Birk
An intensive study of the efficient management of time, energy, or money in the home. Maximum credit in course, 6 hrs. Prereq., 251 and 253.

HUMAN RELATIONS

Professors A. C. Anderson, Patrick, Starcher, Felsted (chairman)
Instructor B. R. Black

Trained personnel workers are needed in many fields; for example, business, industry, labor organizations, labor-management relations, education, social work and administration, and counseling of students as deans of extracurricular life either at the high school or college level.

The graduate student is advised to confer with the dean of the Graduate College regarding the field of personnel work into which he plans to enter.

191. PRACTICUM IN STUDENT PERSONNEL

(3) Felsted

A survey of the problems of orientation of freshmen to college with practical supervised experience in working with small freshman groups in residence halls. Observation, discussion, and practice are related to basic theory courses in the social sciences toward understanding and use of fundamental concepts of personnel and guidance work. Of value to students who plan to teach or to work in other fields especially presenting practical problems in human relationships. 1 lec. and minimum of 4 lab. Prereq., juniors by permission.

201. MARRIAGE

(3) Patrick and Associates Elliott, Houf, Hudson, Knox, V. M. Roberts, and Rowles

An analysis of the problems of courtship, marriage, parenthood, and family adjustments in the light of current scientific and philosophical thinking on these topics. While the approach is clinical and the emphasis is on personal factors making for future wholesome marital adjustments, other factors are integrated in order that marriage may be seen in its broader social relations. Prereq., for undergraduate credit, junior or senior rank; for graduate credit, 12 hrs. social science, or 6 hrs. social science and 6 hrs. biology.

203-204. HUMAN RELATIONS

(3-3) Anderson, Starcher and Associates

This is not a specialized course, but it is intended for students interested in a study of the habits and skills important to people in their association with others in the varied and changing circumstances of everyday life; effective group participation; leadership and its relation to authority. The course is taught primarily by the case system; i.e., by class discussion and interpretations of case descriptions of human situations reported as they actually occurred. Class discussion will exhibit the interplay of both logical and emotional elements as determinants of thought and behavior of individuals and groups. Required reading and lectures are designed to acquaint the student with constructive work in this and allied fields. Prereq., juniors, seniors, and graduate students by permission. Fee, \$3 a semester.

391-392. LABORATORY IN STUDENT PERSONNEL WORK

(1 to 3—1 to 3 as scheduled) Felsted and Associates

This course is designed for students who do not hold fellowships or assistantships in human relations as well as for those who do. Its purpose is for the correlation of theory and practice in student personnel office techniques and the various guidance and counseling services co-ordinated through them. Prereq., 18 hrs. social sciences and permission.

393-394. SEMINAR IN STUDENT PERSONNEL ADMINISTRATION

(2-2) Felsted and Associates

A study designed for persons who are specializing in student personnel work. Emphasis is given to: philosophy and objectives essential to a personnel program; relationships of the various types of services

to the academic program; administrative procedures for effective coordination of the services within a student personnel program; and evaluation of services in their effect upon the student as a member of a democratic society. Typical problems are used as a basis for discussion and report. Prereq., 18 hrs. social sciences and permission.

395. THESIS IN STUDENT PERSONNEL WORK (1 to 6) The Staff

An original research problem in the area of student personnel service. Prereq., permission.

INDUSTRIAL ARTS

Associate Professor Kinison (chairman)
Assistant Professors Paige, L. V. Calvin
Instructor Perry

The requirements for a major in industrial arts includes the following: E. D. 1, 15; Ind. A. 1, 2, 7, 11, 103, 105, 116, 121, 124, 131, 141, 160m, 209, and 212. Additional courses are determined by the requirements for the A.B., B.S., or B.S.Ed. degree.

1. WOODWORKING I

(3) Paige

A basic course in woodworking which includes the study of the common cabinet and framing woods, hand and machine tools, joints, glues, and the methods of finishing wood. The laboratory work consists of planning and constructing one or more projects which illustrate various methods of wood fabrication. 1 lec. and 4 lab. Fee, \$3.

2. WOODWORKING II

(3) Paige

Emphasis is placed upon the care and operation of woodworking machinery. A study is made of the decorative processes, veneering, methods of cabinet construction, and house framing. The laboratory work consists of planning and constructing one or more projects of cabinet type. 1 lec. and 4 lab. Prereq., 1. Fee, \$3.

6. WOOD TURNING

(2) Paige

This is a laboratory course in the designing and making of objects on the wood turning lathe. It includes spindle, faceplate, chuck and mandrel turning, and methods of finishing on the wood lathe. 4 lab. Fee, \$2.

7. SHEET METAL

(3) Calvin

The laboratory work consists of laying out, cutting, forming, joining, decorating and finishing sheet metals. Proper use and maintenance of hand tools and machine tools are emphasized. Lecture discussions include the methods of mining and manufacturing of metals, types of solders and fluxes, and kinds and modern use of sheetmetal. 1 lec. and 4 lab. Fee, \$3.

8. ORIENTATION IN INDUSTRIAL ARTS

(2) Staff Member

A laboratory course of brief experiences with materials, tools and processes, planning, and finishing. Designed to help the student consider teaching industrial arts as a profession. 4 lab. Fee, \$2.

9. CRAFT AND HOBBY WORK

(2) Perry

This is a laboratory course in which any student of the University may learn to work with wood, metal, leather, reed, plastics, textiles or other available materials. 4 lab. Fee, \$2.

11. DUPLICATING

(3) Kinison

This is a laboratory course in the operation of several duplicating processes, and the construction of some of the apparatus used in duplicating. It includes work with the mimeograph, the gelatin duplicator, the spirit duplicator, silk screen printing, photography, block printing, etching, dry point, and blueprinting. 1 lec. and 4 lab. Fee, \$3.

16. CEMENT AND CONCRETE CONSTRUCTION

(2) Staff Member

A study of the materials of concrete construction and practice in the making of concrete vases, garden pools, garden furniture, flagstones, blocks, walks, and walls. 4 lab. Fee, \$2.

26. SHOP ENGINEERING

(2) Calvin

A study of the equipment in modern industry, the basic machine tool operations and a history of the development of the methods of industrial manufacturing. The laboratory work consists of performing the fundamental operations of the various machine tools. 1 lec. and 2 lab. Prereq., engineers only. Fee, \$2.

51. FARM SHOP I

(3) Perry

An opportunity to learn the operations used in the building and repair jobs on the farm. The laboratory work will consist of exercises involving carpentry, concrete working, rope making and splicing, altering and repairing electrical circuits, and the sharpening of farm tools. Emphasis will be placed on the planning of these jobs, including the making and reading of simple working drawings and sketches. The laboratory exercises will be based on practical materials which will actually be used on the farm or in the farm home. 1 lec. and 4 lab. Fee, \$3.

52. FARM SHOP II

(3) Perry

Similar to 51. The laboratory exercises will involve bench metal working, forge working, soldering, welding, practice in the tempering of tools, and harness repair. The learning exercises will consist of practical construction and repair jobs. 1 lec. and 4 lab. Fee, \$5.

103. PRACTICAL ELECTRICITY

(3) Perry

Elementary principles of electricity. A brief introduction to the uses made of electricity for lighting, power, and communication. The practical working principles of electrical appliances are studied. The laboratory work consists of planning and constructing small motors, buzzers, induction coils, and heating appliances. Practice is given in planning, installing, and fusing electrical circuits of the type found in the home. 1 lec. and 4 lab. Fee, \$3.

105. MATERIALS AND FINISHES

(3) Paige

A study of the different materials and finishes that are generally used in the industrial arts laboratories; their sources, manufacture, and application.

109. CABINETMAKING

(3) Paige

The study of advanced machine woodworking and its application to housing and industrial uses. Laboratory work includes both individually designed projects of advanced cabinet construction and production work. 6 lab. Prereq., 2. Fee, \$3.

115. ELEMENTARY INDUSTRIAL ARTS

(1 or 2) Perry

This course is designed to give essential and simple tool operations and skills that are desirable for teachers of the elementary grades. Common hand tools are used. The laboratory work includes the making of simple plans and sketches of the articles to be constructed of materials similar to those commonly used in the elementary classroom. 1 lec. and 1 lab. Prereq., elementary teaching majors only. Fee, \$2 a credit hour.

116. CONSTRUCTIVE DESIGN

(2) Paige

A study of the principles of design and their application to industrial arts projects, and of the identification of the periods of furniture design. 4 lab. Prereq., E. D. 2.

117. SHOP AND MACHINE MAINTENANCE

(2 to 4) Perry

Includes practice in the maintenance jobs commonly done by industrial arts teachers in school laboratories. Correct sharpening and adjustment of both hand and power tools is emphasized. Electric motor hook-up and repair; pulley sizes and speed ratios. 4 to 8 lab. Prereq., 7, 109, 124, or permission.

121. PATTERN MAKING, FORGE, AND FOUNDRY

(2) Paige, Perry

A study of processes, methods, equipment, and organization of these shops as found in industry. Three or more problems are required in each shop. 1 lec. and 3 lab. Fee, \$2.

124. MACHINE SHOP

(3) Calvin

The shaping of metal by the use of the drill press, the engine lathe, the shaper, the milling machine, and the grinders, including the care and upkeep of these machines. 1 lec. and 4 lab. Fee, \$3.

128. ADVANCED METAL WORK

(3) Calvin

A continuation of the study of the technical operations on metalworking machinery, the theory of inspections and product control, and the gauging and measuring devices. The major portion of the course is laboratory work to further the student's knowledge and skill in the basic operations of casting, forming, joining, and cutting metal. 6 lab. Prereq., permission. Fee, \$3.

129. WELDING

(3) Calvin

This course consists of an application of the principles and techniques of oxy-acetylene and arc fusion welding of ferrous and non-ferrous metals, and the joining of metals by brazing processes. Other matters given emphasis are: selection, care and use of welding equipment and supplies; welding metallurgy; and types of joints common to the joining of metals where heat is used. 1 lec. and 4 lab. Fee, \$8.

131. INTRODUCTION TO CERAMICS

(2) Paige

Includes work with clay in forming simple pottery, tile, and brick. Deals with cement and concrete work, the several kinds of mixes, and the proper proportions of cement, aggregate, and water for the various kinds of construction. 1 lec. and 3 lab. Prereq., 2 or permission. Fee, \$2.

141. PRINTING

(3) Kinison

This course consists of learning the case, composition of straight matter, pulling and correcting proofs, imposition, distribution, and platen press work. 1 lec. and 4 lab. Fee, \$3.

142. PRINTING

(3) Kinison

The course deals with papers and paper making, ink, care of supplies, designing and setting display composition, the making of stereotype mats and castings, and platen press work. The automatic press will be used for some of the press work, and the study of color in printing will be emphasized. 1 lec. and 4 lab. Prereq., 141. Fee, \$3.

144. PHOTOLITHOGRAPHY

(3) Kinison

Practice in the setting and distribution of Multigraph type, operation of the Multigraph, practice of making of off-set plates of several kinds, and operation of the off-set press. Plate making involves the use of the copying camera and the whirler. 6 lab. Fee, \$3.

147. ADVANCED PRINTING

(3) Kinison

Deals with the problems that are encountered in a commercial printing shop. 6 lab. Prereq., 142. Fee, \$3.

160m. TEACHING OF INDUSTRIAL ARTS

(3) Kinison

(Same as Ed. 160m) The primary objective of this course is to afford the prospective teacher an opportunity to learn some of the techniques of teaching as applied to industrial arts in the public school. Special emphasis is given to an understanding of how industrial arts contribute toward the objectives of education, organizing and planning courses of study, conducting the laboratory class, presenting technical and related information, how to give demonstrations, lesson planning, evaluating student progress, and shop management. Prereq., 6 hrs. and permission.

199. ADMINISTRATION OF DRIVER EDUCATION

(3) Perry

Organization, administration, and instruction in driver education and training for instructing high school students; includes accident analysis and methods of prevention, traffic rules and courtesies, important automobile mechanisms, observation and practice in automobile operation, and experience in instructing one student in driving. 2 lec. and 4 lab. Prereq., 3 hrs. education, Psych. 5, and permission. Fee, \$5.

209. PRACTICUM IN GENERAL SHOP

(2) Paige

An advanced course in techniques designed to unify previous experiences in the specialty laboratories. 4 lab. Prereq., 1, 7, 124, 141, and senior rank. Fee, \$2.

212. EQUIPMENT AND ORGANIZATION OF INDUSTRIAL ARTS LABORATORIES

(2) Perry

A study of the selection of tools and equipment for the several school shop laboratories, the arrangement of the machines and tools in the laboratory, and the selection and handling of supplies. Prereq., 1, 7, 141, and senior rank.

226. HISTORY OF INDUSTRIAL AND VOCATIONAL ARTS

(3) Calvin

A study of the history of the industrial arts movement from its earliest beginnings down to the present. Special consideration is given to the terms of the Smith-Hughes Law and the George Deen Act and their administration in the State of Ohio. Prereq., 160m and 3 hrs. school administration.

228. SPECIAL PROBLEMS IN INDUSTRIAL ARTS

(1 to 3) Kinison

A research course. Students are encouraged to select a problem for investigation which will involve experimentation as well as the use of the library. Emphasis is placed on the solution of the problem rather than the report of the research. Prereq., senior rank.

350. ADVANCED WOOD, METAL, OR PRINTING

(3) The Staff

Advanced laboratory work in wood, metal, or printing, and a study of the industrial practices in the field selected. A term paper is required. Prereq., 8 hrs. in one field. Fee, \$3.

357. CURRICULUM BUILDING IN INDUSTRIAL ARTS

(3) Kinison

A study of the building of a complete industrial arts curriculum and of the constructing of the several courses that make up the curriculum. Each student constructs a course for one of the several industrial arts subjects. Prereq., 16 hrs.

381. RESEARCH IN INDUSTRIAL ARTS

(1 to 3) The Staff

Students are directed in the investigation of selected phases of the theory and practice of industrial education. Maximum credit in course, 6 hrs. Prereq., Ed. 288, or concurrently with Ed. 288, and 15 hrs.

391. SEMINAR IN INDUSTRIAL ARTS EDUCATION

(1 to 3) The Staff

Reports on recent books and magazine articles, and reports based upon original research will be given and followed by group discussion and criticism. Maximum credit in course, 6 hrs. Prereq., 15 hrs.

395. THESIS

(1 to 8) The Staff

Prereq., permission.

JOURNALISM

Professor Lasher
 Associate Professor Hortin
 Assistant Professor Turnbull
 Instructors Carpenter, McCleanor, Nichols,
 Webb, Reamer, Sherow
 Visiting Lecturer Manderbach

(For courses in Radio Journalism see page 290.)

103. INTRODUCTION TO NEWS WRITING (3) Lasher, Hortin
 The course deals with the simple news story, stressing the lead. Particular attention is paid to diction and usage and to the fundamentals of sentence structure as agencies for the improvement of style in writing. Prereq., Eng. 4.

105. THE NEWSPAPER (2) Lasher
 A study of the character, the purposes, and the general organization of the newspaper, including its business and mechanical aspects, with attention to its origin, development, and present status as a quasi-public institution. Prereq., Eng. 4.

107. NEWSPAPER REPORTING (3) Hortin, Carpenter, McCleanor
 Instruction in methods of gathering material and writing news narratives, interviews, reports of speeches, follow-up and re-write stories, human interest stories, and specialized news. Practical work covering assignments and preparing copy. Prereq., 103.

110. WRITING FOR PUBLICATION (2) Hortin
 Designed for teachers, school administrators, social workers, and others who wish to know the elementary technique of writing news and feature stories in order to publicize their particular interests. Legitimate methods of getting material into publications are discussed. Not open to journalism majors and minors. Prereq., Eng. 4.

111. REPORTING PRACTICE (1 to 6) Reamer
 Students are assigned to general reporting on *The Athens Messenger*, which includes the covering of definite news beats as well as special assignments. Prereq., 107 and permission.

116. SPORTS WRITING AND EDITING (2) Staff Member
 The course deals with the technique of gathering, writing, and editing news and comments concerning all sports, amateur as well as professional. Considerable attention is paid to golf, tennis, hockey, and to the promotion of community sports. Prereq., junior or senior rank.

117. NEWSPAPER EDITING (3) Hortin
 Principles and practices of newspaper copyreading, headline writing, illustration, and make-up for dailies, community newspapers, and tabloids, including regular, special, and Sunday editions. Other phases: style; selecting art and editing picture pages; wire and syndicate news and features; type and mechanical processes. Prereq., 107.





121. EDITING PRACTICE

(1 to 6) Webb

Students are assigned to copyreading on *The Athens Messenger*, handling local, correspondence, and wire copy, and working out make-up problems. Prereq., 117 and permission.

130. BOOK REVIEWING

(2) Hortin

Following a study of book sections in outstanding newspapers and magazines and the methods of experienced book reviewers, students write reviews of current books of various types. Prereq., Eng. 4.

134. THE WRITING OF CRITICISM

(2) Lasher

The fundamental principles of art and criticism are studied and applied to concrete situations in reviewing musical, art, theatrical, photoplay, and radio events. Prereq., Eng. 4 and junior or senior rank.

140. THE COMMUNITY NEWSPAPER

(3) Staff Member

The course stresses phases of the editorial and business management of daily or weekly newspapers published in small communities. Problems include: news treatment and editorial comment; the relation of the newspaper to school, church, business, and community life; circulation promotion; securing and preparing of advertising and job printing; mechanical equipment. Prereq., Eng. 4.

146. TYPOGRAPHY, MECHANICS, AND MAKE-UP

(3) McCrae nor

Make-up of various types of standard and tabloid newspaper pages at the stone, following preparation of lay-out sheets. Use of panels, box inserts, engravings, advertisements, and various typographical devices in newspaper make-up. A study of the characteristics of those type families used for headlines, newspaper text, and advertising will be followed with a treatment of symbolism of type faces and their specific uses. There will be practice in setting various types of headlines and cut lines and in the composition of advertising layouts. Fee, \$3.

148. PHOTO-ENGRAVING

(2) Manderbach

This will cover selection and preparation of copy, including layout, panel, and montage, problems of production, the engraving process, including the actual production by students of zinc etchings and zinc and copper engravings in the photo engraving laboratory. Projects will be worked out in cooperation with students in news and studio photography. Fee, \$2.

151, 152. CONTEMPORARY THOUGHT AND DEVELOPMENTS

(3, 3) Lasher and Others

Important contributions being made in the fields of art, science, aviation, music, education, drama, medicine, literature, government, public health, philosophy, economics, psychology, finance, engineering, law, religion, and sociology are discussed by members of the faculty from various departments and by laymen. Material is presented as a background for newspaper writers and readers. Prereq., junior or senior rank.

164j. TEACHING OF HIGH SCHOOL JOURNALISM

(2) Hortin

(Same as Ed. 164j) For those who wish to use the journalism motive in English composition classes, those who may direct the editing of high school publications, or those who plan to teach journalism. Fundamentals of newspaper writing and editing are considered. Attention is given to preparation of school publicity copy for newspapers.

173. NEWSPAPER CIRCULATION PRACTICE

(2 or 3 as scheduled) Turnbull

Training in the technique of the Audit Bureau of Circulation system of record keeping. Practical work in circulation, department organization, promotion methods, carrier management, mailing room and transportation supervision at *The Athens Messenger*. Prereq., 172 or 243.

177. NEWSPAPER ADVERTISING PRACTICE

(1 to 6) Nichols

Laboratory work in preparing copy for local display advertisers in *The Athens Messenger*. Other practice problems in the fields of classified, national, and promotion advertising. Prereq., 247.

206. NEWSPAPER LAW

(2) Hortin

Case studies of the law of libel with special emphasis on constitutional and statutory law pertaining to freedom of the press and defamatory writing. A study and discussion of the constitutional, statutory, and common law rights of the newspaper and the reporter. New state and national legislation that affects newspapers. Prereq., 117 or 243, and senior rank.

207. REPORTING OF PUBLIC AFFAIRS

(2) Hortin

The course deals with those facts about the courts, legal procedure, civic agencies, government, politics, and business organizations fundamental for the intelligent reporting of public affairs in a community. Students are brought into contact with local officials and organizations. Prereq., 111 or permission, and senior rank in journalism.

208. JOURNALISM ETHICS

(2) Lasher

Consideration of such newspaper, magazine, and radio problems as news suppression, publicity, questionable advertising and business methods, propaganda, and the constructive handling of news dealing with crime, religion, politics, capital, labor, and general social conditions. Prereq., 117, or 243, or 247, and senior rank.

222. FEATURE AND MAGAZINE WRITING

(3) Hortin

A study of newspaper, magazine, and syndicate feature stories and articles is followed by practice in writing different types. Problems considered include: discovering desirable material, securing suitable illustrations, bringing out the dominant interest, preparing and selling manuscripts. Prereq., 107 or 12 hrs. English.

223. ADVANCED FEATURE AND MAGAZINE WRITING

(2) Hortin

Students are permitted to select their type of material. Writing is done with the definite idea of publication. A study is made of the most suitable markets for publication. A conference course. Prereq., 222.

225. THE EDITORIAL PAGE

(3) Lasher

A study of the editorial page as to purpose, material, style, tone, and effect. Training is given in the analysis of news and in the writing of news interpretation, news comment, controversial and generalized editorials, and the editorial paragraph. Prereq., 111 or 12 hrs. English, and senior rank or permission.

227. PUBLIC RELATIONS TECHNIQUES

(2) Turnbull

Study and practice in the preparation and placing of publicity copy, public relations copy-writing, poster and pamphlet production, house organ and trade journal publication, and public opinion polling. The course presents details of public relations functions below the policy and analysis level. Prereq., 103, 107, 146, and Radio 179, and junior rank.

228. PUBLIC RELATIONS

(3) Turnbull

Following a study of the various media available for public relations activities, desirable techniques, objectives, and ethical methods, attention will be given to planning effective programs for industrial and business organizations, educational institutions, social welfare agencies, public enterprises, and governmental departments. Prereq., 107, 111, 227, Radio 179, and junior rank.

229. INDUSTRIAL AND TRADE JOURNALISM

(2) McCrae or

A comprehensive study of internal and external house organs and trade journals. The course will include analysis of content to meet specific needs, practice in copy preparation, and consideration of such publication problems as format design, selection and training of staff, methods of printing, costs, planning of layout, use of illustrations, and choice of features and departments. Not only will all types of publications be studied, but students will work out a complete publication project. Prereq., 103, 107, 111, 117, and 146.

243. NEWSPAPER MANAGEMENT

(2 or 3) Turnbull

Problems of business organization, circulation, the handling of local, national, and classified advertising, office and composing room management, newspaper accounting, business promotion, financing the newspaper, and editorial policies in relation to management. Prereq., 105.

247. NEWSPAPER ADVERTISING AND LAYOUT

(3) Nichols, Turnbull

Departmental organization, solicitation technique, promotion, layout, copywriting, and typography pertaining to the retail, classified, national, and legal advertising departments of the newspaper. Agency organization and operation. Prereq., Advt. 155.

248. ADVERTISING PRODUCTION

(2) Turnbull

Study of mechanical, graphic, and creative methods of advertising production in relation to problem objective and cost; comparative analysis of lithography, letter-press, gravure, and other types of printing and poster work; relation of color, art work, type, media, and quality of paper to advertising purpose. Prereq., 247 or Advt. 232.

281. RESEARCH IN JOURNALISM (2 to 8) The Staff
Special studies in one or more phases of journalism. Prereq., 18 hrs. in journalism and advertising.

395. THESIS (1 to 8) The Staff
Prereq., permission.

LATIN—See Classical Languages

MANAGEMENT Professor Hellebrandt (chairman)
Assistant Professor Levinson

201-202. PRODUCTION MANAGEMENT (3-3) Hellebrandt
Course 201 is an introduction to the more important production procedures and techniques commonly used by progressive manufacturing plants. Deals with methods of supervision used at the lower levels of management in the production field more than with the problems of policy formulation which confront the factory manager. Topics covered include: reading blue prints, planning machine tool use; improving methods; setting time standards; analyzing and rating jobs; rating workers; setting wage rates; controlling operations; planning layouts; organization relationships analyzing new processes; problems of the operating superintendent. Case and semi-laboratory method used. Prereq., Ec. 102, junior rank, or permission. Fee, \$3.

Course 202 covers practical training in the more important types of problems encountered by executives at the level of the executive factory manager. The main objective is to develop the ability to analyze and solve problems in management control of production and in the formulation of production policies. Problems discussed cover such topics as: plant location, plant size, choice of equipment, plant layout, raw material supply and control, labor supply, labor relations, quality control, planning and scheduling, cost control, budgetary control, factory organization. Case method used. Prereq., 201, or permission. Fee, \$1.

212. ADMINISTRATION OF PERSONNEL (3) Hellebrandt, Levinson
A comprehensive survey in the principles of the management of people in business organizations and institutions. Among the subjects treated are industrial government, employment management, accident and waste prevention, labor turnover, and similar topics. Prereq., 102.

221. TIME AND MOTION STUDY (2) Hellebrandt
Case problem study of methods work, worker instruction, and time study as tools of management to develop methods of determining operating standards for work simplification and wage rate determination. Prereq., 201 or Ec. 102 or permission. Fee, \$3.

225. INDUSTRIAL RELATIONS (2 or 3 as scheduled) Staff Member
Objectives, establishment and procedures of collective bargaining; administration of collective bargaining agreements; labor-management cooperation; the methods of conciliation, mediation, and arbitration of disputes. Special attention will be paid to economic grounds for the negotiation and settlement of industrial conflicts. Prereq., 235 or simultaneous enrollment.

232. WAGE AND SALARY ADMINISTRATION (2) Levinson
The factors determining industrial wage and salary policies, methods of employee payments, wage relationships, wage rate setting, incentive wage plans. The techniques and methods of implementing wage and salary policies. Prereq., 202 or 212.

281. RESEARCH IN MANAGEMENT (2 to 8) The Staff
Special studies in industrial organization and scientific management. Prereq., 16 hrs. economics and/or commerce including Mgt. 201 or 212.

395. THESIS (1 to 8) The Staff
Prereq., permission.
Additional courses:
Ec. 235—Labor Economics
Ec. 238—Labor Legislation
Stat. 171—Analysis of Statistical Data
Stat. 241—Business Cycles
Stat. 245—Forecasting

MARKETING Professor Krauskopf
Associate Professor Paynter (chairman)
Instructor McVey

155. MARKETING PRINCIPLES (3) Krauskopf, Paynter, McVey
The principles, methods, and policies of marketing consumers' goods and industrial goods.

158. MARKETING PROBLEMS (3) Paynter, McVey
A consideration by the case method of the problems facing the producer and the middleman. Prereq., 155.

171. PRINCIPLES OF PERSONAL SELLING (2) McVey
The fundamentals of personal salesmanship and the problems involved in the relationship of the personal salesman to the sales organization. Prereq., 155.

176. SALES MANAGEMENT (2) McVey
Problems in the management of the sales organization and in some of the immediately related fields of management. Prereq., 155.

201. RETAIL SELLING POLICIES (3) Paynter
The organization and operation of retail institutions. Prereq., 155 and Ec. 102.

202. RETAIL BUYING AND STOCK CONTROL (3) Paynter
A study of buying, receiving, and stock control practices in retail stores. Prereq., 201.

211. RECENT TRENDS IN MARKETING AND SELLING (3) Krauskopf, Paynter
Prereq., 155 and Ec. 102.

226. INDUSTRIAL PURCHASING AND INDUSTRIAL MARKETING (3) Paynter
The purchasing and selling of industrial goods. Prereq., 155 and Ec. 102.

241. FOREIGN TRADE (3) Paynter
A study of the theories of foreign trade and of the problems met by concerns engaged in importing and exporting. Prereq., Ec. 102.

246. FOREIGN MARKETS (2) Paynter
A study of foreign markets from the point of view of the American exporter. Prereq., 155 and Ec. 102.

252. PROBLEMS IN SALES MANAGEMENT (2) Krauskopf, McVey
An advanced course considering problems of sales administration and selling policies by the case method. Prereq., 158 or 171, 176, Ec. 102.

281. RESEARCH IN MARKETING (2 to 8) The Staff
Research methods, market data, and methods of conducting market surveys. Prereq., 18 hrs. commerce, including 5 hrs. marketing, and permission.

391. SEMINAR IN MARKETING (2 to 4) The Staff
Maximum credit in course, 10 hrs. Prereq., 18 hrs. commerce, including 5 hrs. marketing, and permission.

395. THESIS (1 to 8) The Staff
Prereq., permission.

MATHEMATICS

Professors Reed, Marquis (chairman),
Starcher, Denbow
Associate Professor Goedicke
Acting Assistant Professor Ridout
Acting Instructors N. D. Johnson, Treon, Swick, Stanger,
Ferguson, Hokanson

The major requirement in mathematics for the A.B. and the B.S. degrees consist of Math. 5, 6, 117, 118, and three other courses at least two of which shall bear a course number above 200.

The major requirement in mathematics for the B.S. in Education degree is given on page 127.

1. ELEMENTARY ALGEBRA

(4) The Staff

A beginning course for students with no high school algebra.

2. INTERMEDIATE ALGEBRA

(3) Swick

This course is intended for students who find their preparation inadequate for Math. 5, but who have had one year of algebra in high school. It consists of a review of the first year of high school algebra and those more advanced topics ordinarily considered in the second year of high school algebra. Prereq., 3, or 1 yr. high school algebra and 1 yr. high school plane geometry.

3. PLANE GEOMETRY

(4) The Staff

A course for students with no high school geometry. Prereq., 1 or 1 yr. high school algebra.

4. SOLID GEOMETRY

(3) The Staff

Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry.

5. FRESHMAN MATHEMATICS

(5) The Staff

A review of high school algebra, the number system, the rational operations, coordinates and loci, functions and graphs, linear equations, binomial theorem, quadratic equations, logarithms, trigonometry of the right triangle, trigonometric equations and identities, the oblique triangle, inverse trigonometric functions. Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry.

6. FRESHMAN MATHEMATICS

(5) The Staff

Progressions, the straight line, the circle, the conic sections, polar coordinates; a brief treatment of solid analytic geometry. Prereq., 5.

8. ARITHMETIC REVIEW

(1) Johnson

A review of the fundamentals of arithmetic. Credit not counted toward a degree.

34. MATHEMATICS OF FINANCE

(3) Swick

A study of interest, annuities, sinking funds, valuation of bonds, capitalized cost, life insurance, and life annuities. Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry.

105. COLLEGE GEOMETRY

(3) Marquis

Problems of construction, loci, indirect methods, similar and homothetic figures, the triangle, medians, bisectors, altitudes, and transversals. Prereq., 6.

117. DIFFERENTIAL CALCULUS

(4) The Staff

Variables, functions, limits, differentiation of algebraic forms, applications of differentiation, differentials, integration of simple algebraic forms, the definite integral, integration as a process of summation, and applications to problems of geometry and mechanics. Prereq., 6.

118. INTEGRAL CALCULUS

(4) The Staff

Differentiation of transcendental functions, differentiation applied to polar and parametric equations, curvature, theorem of mean value, indeterminate forms, the integration of standard elementary forms, infinite series, expansion of functions, partial derivatives, and multiple integrals. Prereq., 117.

125. ELEMENTARY STATISTICS

(3) Ferguson

The common theory and methods used generally by investigators in widely different fields. The topics considered are: graphs, methods of computing the statistical constants, transformation of units, moments, the normal law, curve fitting, time series, trend and ratio charts, correlation, regression, and probability. Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry.

168m. TEACHING OF MATHEMATICS IN HIGH SCHOOLS

(2 or 3 as scheduled) Swick

(Same as Ed. 168m.) An analysis of the basic ideas of algebra and geometry. Methods of presenting topics in these subjects to junior and senior high school students. Prereq., 6 and Psych. 5.

201. THEORY OF EQUATIONS

(3) Reed

The roots of unity, theorems on the roots of an equation, construction of roots with ruler and compasses, isolation of real roots, numerical solutions, determinants, systems of linear equations, and symmetric functions. Prereq., 6.

204. ADVANCED CALCULUS

(3) Reed

Particular subjects in the differential and integral calculus: expansion into series, Taylor's series, definite integrals and their applications to double and triple integrals, line integrals, and some vector analysis. Prereq., 118.

208. PROJECTIVE GEOMETRY

(3) Marquis

A study of the elements, primitive forms, duality, projectively related forms, curves and ruled surfaces of the second order, Pascal's and Brianchon's theorems, poles and polars, and the theory of involution. Prereq., 6.

215. DIFFERENTIAL EQUATIONS

(3) Goedelke, Reed

The formation of a differential equation, types of equations solvable by a transformation, linear equations, integration in series, simultaneous linear equations, and differential equations from mechanics and physics. Prereq., 118.

217. VECTOR ANALYSIS

(3) Reed

The elements of vector algebra, the elements of vector calculus, scalar and vector fields, linear vector functions and dyadiics, and general coordinates and associated transformation theory. Prereq., 118.

226. THEORY OF STATISTICS (3) Goedcke
 The normal surface, probability, frequency curves and their uses, sampling theory, multiple correlation, finite differences, and interpolation. Prereq., 118 and 125.

230. FOURIER ANALYSIS (3) Goedcke
 The properties of orthogonal functions and the application of Fourier series and Fourier-Bessel series to boundary-value problems of physics. Prereq., 215.

290. STUDIES IN MATHEMATICS (2 or 3) The Staff
 Selected topics in mathematics will be studied under the guidance of an instructor especially interested in the field. Prereq., 21 hrs.

311-312. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE (3-3) Marquis
 Prereq., 201 and 215.

395. THESIS (1 to 8) The Staff
 Prereq., permission.

MECHANICAL ENGINEERING—See Engineering

MUSIC Professors Robinson, Ingerham, Gorton
 Associate Professors Fontaine, Peterson
 Assistant Professors Kresge, Longstreet, H. H. Roach,
 Blayney, Thackrey, Morley, Witzler,
 Merritt, Glenn, Gilbert
 Instructors Chiarappa, L. J. Linn, Brophy, Stewart
 Acting Instructors King, Betros

APPLIED MUSIC

(Note: A description of the proficiency requirements for each level may be secured from the School of Music.)

VOICE (1 to 3 - 1 to 3) Robinson, Peterson, Roach, Merritt
 1-2
 11-12, 13-14, 15-16, 17-18
 51-52, 101-102, 201-202, 251-252

Fee, \$20 a semester hour. Practice room fee, \$3 a semester hour.
 Prereq., permission.

PIANO (1 to 3 - 1 to 3) Fontaine, Kresge, Longstreet, Chiarappa, Linn
 1-2, 3-4, 5-6
 11-12, 13-14, 15-16, 17-18
 51-52, 101-102, 201-202, 251-252

Fee, \$20 a semester hour. Practice room fee, \$3 a semester hour.
 Prereq., permission.

ORGAN

(1) Kresge

11-12, 13-14, 15-16, 17-18

Fee, \$20 a semester hour. Practice room fee, \$10 a semester hour.
Prereq., permission.

STRINGED INSTRUMENTS

(1 to 3 - 1 to 3) Ingerham, Stewart

Violin 1-2, 3-4, 5-6

11-12, 13-14, 15-16, 17-18

51-52, 101-102, 201-202, 251-252

Viola 1-2, 3-4, 5-6

11-12, 13-14, 15-16, 17-18

Violoncello 1-2, 3-4, 5-6

11-12, 13-14, 15-16, 17-18

51-52, 101-102, 201-202, 251-252

Bass 1-2, 3-4

11-12, 13-14, 15-16, 17-18

Fee, \$20 a semester hour. Practice room fee, \$3 a semester hour.
Prereq., permission.

WOODWIND INSTRUMENTS

(1 to 3 - 1 to 3) Witzler, Gilbert

Flute 1-2, 3-4

11-12, 13-14, 15-16, 17-18

Oboe 1-2, 3-4

11-12, 13-14, 15-16, 17-18

Clarinet 1-2, 3-4

11-12, 13-14, 15-16, 17-18

51-52, 101-102, 201-202, 251-252

Bassoon 1-2, 3-4

11-12, 13-14, 15-16, 17-18

51-52, 101-102, 201-202, 251-252

Fee, \$20 a semester hour. Practice room fee, \$3 a semester hour.
Prereq., permission.

BRASS INSTRUMENTS

(1 to 3 - 1 to 3) Thackrey, Brophy

Trumpet 1-2, 3-4

11-12, 13-14, 15-16, 17-18

51-52, 101-102, 201-202, 251-252

Baritone 1-2, 3-4

11-12, 13-14, 15-16, 17-18

51-52, 101-102, 201-202, 251-252

Horn 1-2, 3-4

11-12, 13-14, 15-16, 17-18

51-52, 101-102, 201-202, 251-252

Trombone 1-2, 3-4

11-12, 13-14, 15-16, 17-18

51-52, 101-102, 201-202, 251-252

Tuba 1-2, 3-4

11-12, 13-14, 15-16, 17-18

51-52, 101-102, 201-202, 251-252

Fee, \$20 a semester hour. Practice room fee, \$3 a semester hour.
Prereq., permission.

PERCUSSION INSTRUMENTS	(1 to 3 - 1 to 3)	Gilbert
1-2, 3-4		
11-12, 13-14, 15-16, 17-18		
51-52, 101-102, 201-202, 251-252		
Fee, \$20 a semester hour. Practice room fee, \$3 a semester hour.		
Prereq., permission.		
UNIVERSITY BANDS	(1)	Gilbert, Brophy
Open to men and women students. Prereq., permission.		
UNIVERSITY CHORUS	(1)	Gorton
Open to men and women students. Prereq., permission.		
UNIVERSITY SYMPHONY ORCHESTRA	(1)	Ingerham
Open to men and women students. Prereq., permission.		
MEN'S GLEE CLUB	(1)	Peterson
Open to men students. Prereq., permission.		
WOMEN'S GLEE CLUB	(1)	Merritt
Open to women students. Prereq., permission.		
231-232. PIANO ENSEMBLE	(1-1)	The Staff
Participation in the playing of original works or arrangements for two pianos. Prereq., Piano 102 or the equivalent.		
251-252. CHAMBER MUSIC	(1-1)	The Staff
Participation in the playing of the standard chamber music literature. Prereq., 202 in the major instrument.		
275. ADVANCED CONDUCTING	(1 to 4)	The Staff
An opportunity for study and practical experience in either choral or instrumental conducting. Stress on the use of the baton, attack, release, control, phrasing, and other basic techniques. Interpretative studies in chorales, anthems, part songs, and the oratorio, opera, and symphony. Maximum credit in course, 6 hrs. Prereq., Piano 6, Mus. 104, 106, 173, and permission.		
331. VOICE	(2 to 4)	Robinson, Peterson, Roach, Merritt
Fee, \$20 a semester hour. Practice room fee, \$3 a semester hour. Maximum credit in course, 16 hrs. Prereq., Voice 252 and permission.		
333. PIANO	(2 to 4)	Fontaine, Longstreet, Chiarappa, Linn
Fee, \$20 a semester hour. Practice room fee, \$3 a semester hour. Maximum credit in course, 16 hrs. Prereq., Piano 252 and permission		
335. ENSEMBLE	(2 to 4)	The Staff
Maximum credit in course, 16 hrs. Prereq., 252 in major instrument and permission.		
337. STRINGED INSTRUMENTS	(2 to 4)	Ingerham, Stewart
Fee, \$20 a semester hour. Practice room fee, \$3 a semester hour. Maximum credit in course, 16 hrs. Prereq., 252 in major instrument and permission.		

339. WOODWIND INSTRUMENTS (2 to 4) Witzler, Gilbert
 Fee, \$20 a semester hour. Practice room fee, \$3 a semester hour. Maximum credit in course, 16 hrs. Prereq., 252 in major instrument and permission.

341. BRASS INSTRUMENTS (2 to 4) Thackrey, Brophy
 Fee, \$20 a semester hour. Practice room fee, \$3 a semester hour. Maximum credit in course, 16 hrs. Prereq., 252 in major instrument and permission.

343. PERCUSSION INSTRUMENTS (1 or 2) Gilbert
 Fee, \$20 a semester hour. Practice room fee, \$3 a semester hour. Maximum credit in course, 8 hrs. Prereq., 252 in major instrument and permission.

395. RECITAL (4) The Staff
 A full-length public recital, a recording of which will be filed in the library, in lieu of a thesis. Prereq., permission.

MUSIC HISTORY AND LITERATURE

5. MUSIC APPRECIATION (2) Thackrey
 A study of the form and meaning of musical masterpieces and some acquaintance with the composers represented, looking toward more intelligent listening and cultural enjoyment. Music vocabulary. The phonograph is used for illustrative purposes. Not open to music majors.

131. BACKGROUND FOR MUSIC CRITICISM (2) Fontaine
 For journalism students; open to others by permission. Designed to prepare the student for reporting music programs.

237. THE LITERATURE OF VOCAL MUSIC (2) Merritt
 A survey of representative literature from the fields of oratorio, choral music, and the art song with its background of the folk song. Prereq., F. A. 124.

238. THE LITERATURE OF ORCHESTRAL MUSIC (2) Ingerham
 The development of orchestral literature from the classic through the contemporary. Prereq., F. A. 124.

239. THE EVOLUTION OF THE OPERA (2) Roach
 A survey of the growth of opera as we know it today, including a study of libretti and the great personalities associated with it either as composers or artists. Prereq., F. A. 124.

240. THE LITERATURE OF PIANO MUSIC (2) Fontaine
 A comprehensive study of the development of the instrument, the primary forms adapted to it, and the representative composers. Prereq., F. A. 124.

301, 302. MUSIC LITERATURE (3, 3) Gorton
 A survey of the literature of music from the Gregorian chant to the present, with emphasis on style, form, and content. Prereq., F. A. 124 and permission.

395. THESIS

(1 to 8) The Staff

Prereq., permission.

Additional course:

F. A. 123-124.—History of Music.

THEORY AND COMPOSITION**3-4. THEORY**

(3-3) King

A beginning study of the melodic, harmonic, and rhythmic principles of music and its notation. The approach is through correlated hearing, singing, writing, and playing. The harmonic materials include the principal and subordinate triads in major and minor keys and the dominant seventh. 5 hrs. a week.

103-104. DICTATION AND SIGHT SINGING

(2-2) King

Advanced melodic and harmonic dictation involving intricate rhythms and altered chords. More difficult sight reading of vocal and instrumental forms, stressing the underlying harmony. Should be taken concurrently with Mus. 105-106. 3 hrs. a week. Prereq., 4 with a minimum grade of C.

105-106. HARMONY

(3-3) King

Harmonization of melodies and figured basses, both written and at the keyboard. Secondary seventh, dominant ninth, altered and mixed chords, modulation. Improvisation, transposition. 4 hrs. a week. Prereq., 4.

133. INSTRUMENTATION

(3) Gilbert

A study of the various orchestral instruments from the standpoint of their range, tonal character, technical limitations, and orchestral uses. Arranging for small ensembles. 3 hrs. a week and participation in Instrumental Workshop. Prereq., 106.

201-202. ANALYSIS AND FORM

(2-2) Gorton

Harmonic and structural analysis of music compositions; the rondo forms, minuet, classical and modern suites, variation form, fugue, sonata, etc. Prereq., 106.

207-208. ARRANGING AND SCORING FOR BANDS

(2-2) Gilbert

In this course the woodwind, brass, and percussion instruments, including the saxophones, sarrusophones, and other resources occasionally used, receive special attention from the aspects of their specialized use in scoring for the modern military and symphonic band. Arranging from vocal, piano, and organ music; addition of extra parts to thinly scored compositions; omission of parts from thickly scored compositions; cueing and substitutions of instruments. Orchestral transposition problems and transcribing orchestral music for symphonic band. Projects in original scoring. Prereq., 104, 106, 133.

213-214. ORCHESTRATION

(2-2) Gorton

A study of the string quartet, the string trio, the string quintet; strings with pianoforte, strings with wind instruments and larger combinations; writing for small, medium, and full orchestra; choral, organ, and pianoforte transcriptions. Prereq., 104, 106.

215-216. *ADVANCED HARMONY

(2-2) Kresge

A study of the evolution of harmony to the present, including the harmonic materials of Wagner and the Impressionists and the new methods of chord structure in modern harmony, polytonality, atonality; analysis and original writing. Prereq., 104, 106.

217-218. COUNTERPOINT

(2-2) Fontaine

Single counterpoint in all species in two, three, or four parts. Development of motive, double counterpoint, free writing on original themes. Prereq., 104, 106.

219-220. COMPOSITION

(2-2) Gorton

Correlation of the harmonic and contrapuntal principles. Original writing in the smaller forms. Prereq., 104, 106.

257-258. COUNTERPOINT

(2-2) Fontaine

The multiple forms of counterpoint. Double and triple counterpoint with and without free parts. Special attention is given to the *Inventions* and *Partitas* of Bach. Students write short, original compositions in the contrapuntal style for organ or piano, trios for piano and strings or woodwinds, as well as simpler forms for string quartet. Prereq., 218.

271-272. COMPOSITION

(2-2) Gorton

Original writing in the larger forms. Prereq., 220.

284. RESEARCH IN MUSIC

(2 to 4) Fontaine, Glenn

A project course in which the student selects, under the guidance of the instructor, subjects for special investigation and written reports. Prereq., 30 hrs. or the equivalent and 12 hrs. English.

309-310. CANON AND FUGUE

(2-2) Fontaine

A critical study of the classic canon in all its forms. Complete familiarity with the *Well-Tempered Clavichord* is expected. A fully-developed original fugue in four voices is necessary for credit. Prereq., 258 and permission.

325-326. COMPOSITION

(2-2) Gorton

Extensive writing in the larger vocal and instrumental forms. The use of modern harmonic principles. Prereq., 272.

327-328. ADVANCED ORCHESTRATION

(2-2) Gorton

Problems in scoring original works and arranging for the modern symphony orchestra. Satisfactory scores are performed by the University Symphony Orchestra. Students are required to attend an assigned number of orchestra rehearsals. The classwork includes criticism of each student's work. Prereq., 214, 218.

329. SIXTEENTH CENTURY COUNTERPOINT

(2) Gortan

A detailed study of the techniques of the period, particularly as evidenced in the works of Palestrina and Lassus. Original writing in the sixteenth century modal style. Prereq., 218 and permission.

395. THESIS

(1 to 8) The Staff

Prereq., permission.

MUSIC EDUCATION**71. INTRODUCTION TO MUSIC FOR ELEMENTARY TEACHERS**

(2) Glenn

A general orientation course to meet the needs of the classroom teacher in elementary education. Through class performance and listening as well as a study of material used in concert and good radio programs, music appreciation, as related to everyday life, is developed. 2 lec. and 1 lab.

72. MUSIC FUNDAMENTALS

(2) Blayney

A course involving theory, ear training, tone production, and sight singing of unison and part songs. 3 hrs. a week. Prereq., 71.

160. INTRODUCTION TO MUSIC EDUCATION

(2) Glenn

A basic course in music education. The philosophy of music education; the history and development of school music; the psychological approach to musical learning; the personality of the teacher and the relationship to the community; a brief survey of tests and testing methods; the general aspects of musical understanding; rhythm; enabling skills; listening; creative activities; the relationship between the vocal and instrumental program; the sequence of music in the school program.

161. STRING TECHNIQUES AND MATERIALS

(2) Stewart

Elementary class instruction in instruments of the string choir, discussion of materials, and observation of actual teaching situations. 5 lab. and participation in Instrumental Workshop. Prereq., 160. Fee, \$2.

163-164. WIND AND PERCUSSION TECHNIQUES AND MATERIALS

(2-2) The Staff

Elementary class instruction in the woodwind, brass, and percussion instruments; discussion of materials; and observation of actual teaching situations. 5 lab. and participation in Instrumental Workshop. Prereq., 160. Fee, \$2.

165. VOCAL TECHNIQUES AND MATERIALS

(2) Blayney

The changing voice and its problems; voice range and quality; posture; diction; voice blending; class voice; organization; eligibility; values; techniques and materials. Prereq., 160.

166e. TEACHING OF MUSIC IN ELEMENTARY GRADES

(2) Blayney, Morley

(Same as Ed. 166e) Music for grade teachers; objectives and techniques of teaching elementary music; singing, creative, rhythmic, and appreciation methods; materials. Prereq., 72.

166f. SUPERVISION OF MUSIC IN THE ELEMENTARY SCHOOL (3) Glenn

(Same as Ed. 166f) The general aims of the elementary school music program; a study of modern trends and how they may be applied to the teaching of music in the elementary grades; the rote song; creative activities; the development of rhythmic sense; mastery of score; part singing; music appreciation; the organization of the elementary program; materials. Prereq., 160, with Ed. 183 or 184.

166i. MUSIC IN THE JUNIOR AND SENIOR HIGH SCHOOL (3) Glenn

(Same as Ed. 166j) Criteria for the selection of courses in schools of various sizes; general music; selected music groups; the chorus, glee club, choir, band, and orchestra; the organization of the junior and senior high school program; materials. Prereq., 160, with Ed. 183 or 184.

166p. TEACHING OF CLASS PIANO (1) Blayney

(Same as Ed. 166p) Class instruction in piano covering the first two years of work outlined by the Oxford Piano Course. Participation in classroom teaching and survey of teaching materials. 2 hrs. a week. Prereq., Piano 4 or the equivalent.

173. CONDUCTING (2) Ingerham, Glenn

The fundamentals of conducting, accompanied by individual practice in conducting. For music majors only; open to others by permission. Prereq., 104, 106.

276. MUSIC CLINIC WORKSHOP (Summer session only) (2) The Staff

A two-week music clinic workshop for high school students and music directors; a program to further musical growth of boys and girls between the ages of 12 and 19 years interested in instrumental and choral music; a program of professional stimulation and growth for prospective and in-service music directors; outstanding guest conductors. No credit for high school students. Maximum credit in course. 4 hrs. Pre-req., senior or graduate majors. Fee, \$11.

370. CONTEMPORARY TRENDS IN MUSIC EDUCATION (2) Glenn

Procedures in the evaluation of methods and materials and how to modify them to meet the present music situation. Special topics for research and discussion to meet the needs of individual students. Prereq., 166j and permission.

371. PROBLEMS IN THE SUPERVISION OF VOCAL MUSIC (2) Glenn

Investigation of problems connected with teaching and supervision of vocal music encountered during service. 2 lec., lab as required. Pre-req., 165, 166f, 166j, 2 hrs. observation, and 4 hrs. student teaching.

372. PROBLEMS IN THE SUPERVISION OF INSTRUMENTAL MUSIC (3) Gilbert

Investigation of the problems connected with teaching and the supervision of instrumental music encountered during service. 2 lec., lab. as required. Prereq., 161, 164, 166b, 2 hrs. observation, and 4 hrs. student teaching.

373. EXPERIMENTAL STUDIES IN MUSIC

(3) Glenn

A survey of important psychological investigations bearing upon musical composition, performance and appreciation. A consideration of factors of musical talent, frequency and pitch, intensity, time and rhythm, timbre, imagery and memory, consonance and dissonance, auditory imagery, effects of practice on judgments of pitch. Prereq., 30 hrs., and Psych. 1 and 5.

374. MUSICAL TESTS AND MEASUREMENTS

(2) Morley

A study of educational measurements in the field of music. Experimental studies by scientific investigators; the newer movements in evaluating musical talent and accomplishment in school music are reviewed. 2 lec., lab. as required. Prereq., 104, 106, 166j, 373, Psych. 5, and Psych. 223 or with Psych. 223.

395. THESIS

{1 to 8} The Staff

Prereq., permission.

PAINTING—See Art**PHILOSOPHY**

Professors Gamertsfelder, Houf (chairman)

Assistant Professors Knox, Creegan, Barrett

Acting Instructor Ahrens

Courses in philosophy and religion are open to students throughout the University. They may be taken as electives, or for either a major or a minor in the College of Arts and Sciences. For the undergraduate major in philosophy a minimum of 20 hours in the department is required, including 1 or 109, 103, 202 or 201, and at least two hours' credit in the study of religion or the Bible. The courses numbered 1 and 2 may be taken to meet the University College requirement in the area of humanities.

1. PRINCIPLES OF REASONING

(3) Barrett, Creegan

A "general education" course concerned with the conditions and principles of correct thinking. Some of the main fields of knowledge are defined and related in terms of the kinds of evidence and methods that are peculiar to each, with special emphasis on the methods of the natural sciences and the social studies. The nature of common fallacies is considered in order that the student may have a better understanding of the meaning of responsible statement and belief.

2. LIFE'S MEANING AND MORAL PHILOSOPHIES

(3) Houf, Knox

Problems connected with the business of living in this century are considered from an ethical viewpoint. Class discussion and readings take account of the present scientific and social background. The main moral philosophies are compared. As a "general education" course for freshmen and sophomores, it aims to aid in forming a personal philosophy of life on a broad cultural basis.

81. PROBLEMS OF RELIGION (1 to 3 as scheduled) Houf
 Deals with some of the major religious and moral problems which perplex present-day youth. Selected problems are treated in lectures, readings, and class discussion.

82. INTRODUCTION TO THE BIBLE (1 or 2 as scheduled) Barrett
 Considers the kinds of books in the Bible, their background and purposes, a sketch of the main ideas, and some methods of Bible study.

100. GENERAL ETHICS (3) Ahrens
 Considers the development of moral ideas, the historical ethical theories, and a constructive moral philosophy, including class discussion of the chief personal and social problems of current life.

101. INTRODUCTION TO NEW TESTAMENT THOUGHT (3) Houf
 The social and religious background and the development of the New Testament writings. Study of the teachings of Jesus and Paul and the other important types of New Testament thought.

102. INTRODUCTION TO OLD TESTAMENT THOUGHT (3) Knox
 A study of the content and development of Hebrew thought, including early tradition, the ideals of the prophets, legal formalism, Jewish philosophizing, devotional writings, and the Messianic hope.

103. INTRODUCTION TO PHILOSOPHY (3) Ahrens
 A study of principles and meanings as found in the sciences, morals, religion, and art. The course aims to put the student in possession of the fundamental ideas necessary for forming a satisfactory philosophy of life. Not open to students who have had Phil. 105.

105. BRIEF INTRODUCTION TO PHILOSOPHY (2) Ahrens
 An abbreviation of Phil. 103 for students who desire a shorter course in the subject. Not open to students who have had Phil. 103.

107. THE WORLD'S GREAT RELIGIONS (2 or 3 as scheduled) Houf, Knox
 A historical and comparative treatment of the origins, literature, beliefs, practices, and values of the great religions of the world, including both the Orient and the Occident.

109. LOGIC (2 or 3 as scheduled) Barrett
 A study of the principles, methods, and organization of the sciences and of sound reflective thinking in oral and written exposition and in argumentation generally.

111. BUSINESS AND PROFESSIONAL ETHICS (2) Creegan, Houf
 The place of business and professional organizations in society; study of the ethical practices and standards in the business world and in some professions. Prereq., junior or senior rank.

113. AMERICAN PHILOSOPHY (2 or 3 as scheduled) Creegan
 The thought movements in American history, with a view to explaining the philosophical background of our literature, social institutions, and national character. Prereq., 3 hrs.

117. SOCIAL AND POLITICAL PHILOSOPHY (2 or 3 as scheduled) Creegan
 After study of the political philosophies recently dominant in Germany, Italy, and Russia, analysis is made of the philosophy and practice

of liberal democracy as in the United States. Upon a realistic view of contemporary institutions in theory and practice, is built a constructive philosophy of social democracy.

201. HISTORY OF IDEAS: ANCIENT AND MEDIEVAL (3) Knox

A historical introduction to the ideas and systems of thought which have been influential in the development of human cultures in the West; the relation of these ideas to the growth of the natural sciences and the changes in social theory. Prereq., 6 hrs., or 3 hrs. and 6 hrs. in one social science, or 3 hrs. and 12 hrs. English.

202. HISTORY OF IDEAS: MODERN (3) Knox

A history of the thought of some of the most influential of modern thinkers with special reference to cultural developments, including the Renaissance, the rise of Protestantism, science and religion, Marxism, and Humanism. Prereq., 6 hrs., or 3 hrs. and 6 hrs. in one social science, or 3 hrs. and 12 hrs. English.

204. ADVANCED SOCIAL PHILOSOPHY (2 or 3 as scheduled) Creegan

An inquiry into the philosophy of social institutions and social programs. The competing political philosophies of our time, with their meanings for the state, economic activities, education, and general culture. Emphasis upon the problems of democracy. Not open to students who have had Phil. 117. Prereq., 6 hrs., or 3 hrs. and 6 hrs. in one social science.

206. CONTEMPORARY THOUGHT (2) The Staff

The reading and discussion of selections from representative philosophers of the present and recent past. Acquaintance is made with the leading schools and movements in present-day philosophy. Prereq., 6 hrs.

208. THE HISTORY AND MEANING OF SCIENCE (2 or 3 as scheduled) Barrett

This course aims primarily to acquaint the student with the meaning and methods of science as an element of human culture, present and past. Prereq., 6 hrs., or 3 hrs. and 12 hrs. natural science.

209. PHILOSOPHY OF RELIGION (3) The Staff

The meaning of religion; the relation of religion to other aspects of culture; Christianity and other religions; the existence and nature of God; prayer, the soul, and immortality; skepticism and faith. Prereq., 6 hrs.

210. MINOR STUDIES IN PHILOSOPHY (1 to 3) The Staff

A critical study of selected types of philosophy, or an investigation of minor problems in the history of philosophy. Maximum credit in course, 6 hrs. Prereq., 6 hrs.

391. SEMINAR IN PHILOSOPHY (2 or 3 as scheduled) The Staff

Especially assigned problems are treated or the writings of important philosophers are read and critically examined. Maximum credit in course, 6 hrs. Prereq., 15 hrs.

395. THESIS (1 to 8) The Staff

Prereq., permission.

PHOTOGRAPHY

Acting Instructors DeVille, McMillion
Visiting Lecturer White

No student may register for more than eight hours in photography during a single semester.

77-78. BASIC PHOTOGRAPHY

(3-3) McMillion

A study of the basic practices and principles of photography designed to prepare the student for advanced work. 1 lec. and 4 lab. Fee, \$2 a semester.

133. NEWS PHOTOGRAPHY

(2) White

A basic working knowledge of photographic technique and practice for newspaper and magazine illustration. Flash photography. Copying and the problems of reproduction. Discussion of newspaper and magazine assignments. Discussion of law, libel and ethics in news photography. 1 lec. and 2 lab. Prereq., 77. Fee, \$3.

143-144. PHOTOGRAPHIC PROCESSES

(3-3) DeVille

History of photographic processes, photographic optics, photochemistry, sensitometry, printing processes, and mechanical reproduction methods. 3 lec. Prereq., 78.

145. WORKSHOP IN PHOTOGRAPHY

(3) McMillion

Individual assignments within the previous photographic experience of the student to provide a deeper understanding and greater working security and to develop the student's personal approach. The student is assisted in technique and composition. Maximum credit in course, 6 hrs. 6 lab. Prereq., 78 and permission. Fee, \$3.

277-278. PORTRAITURE

(3-3) DeVille

An approach to professional portraiture. Emphasis is on lighting, posing, and retouching; portrait print quality, finish, and presentation. All types of portraiture are presented. Use of corrective make-up. Relationship between photographer and client. 2 lec. and 4 lab. Prereq., 78. Fee, \$5 a semester.

279-280. COMMERCIAL AND ILLUSTRATIVE PHOTOGRAPHY

(5-5) White

Photographic technique and practice applied to commercial, advertising and illustrative photography—studio and outdoor illustration, fashion photography and the picture story. The student is introduced to the problems of commercial studio operation and free-lance photography. 2 lec. and 8 lab. Prereq., 278 or permission. Fee, \$5 a semester.

281. ADVANCED WORKSHOP IN PHOTOGRAPHY

(3) White

Individual assignment of advanced problems. Maximum credit in course, 6 hrs. 6 lab. Prereq., 278 or 280 or permission. Fee, \$3.

291-292. COLOR PHOTOGRAPHY

(3-3) DeVille

Theory of color, additive and subtractive synthesis, color filters and their uses, color temperature of light sources, use of transparence ma-

terials, direct color printing, separation negative methods, dye transfer printing, and masking methods. Individual assignments of color problems. 6 lab. Prereq., 144, 278 or 280 and permission. Fee, \$6 a semester.

395. THESIS

(1 to 8) The Staff

Prereq., permission.

PHYSICAL EDUCATION AND ATHLETICS

Associate Professors Trautwein, Nessley, Hatcher, Trepp, LaTourrette, Rhoads, Widdoes (director of the division)

Assistant Professors Olson, Bell, J. C. Johnson,

Blosser, Wren, Brinker

Instructors Jackson, Snyder, Richey, George, G. W. Linn

WIDDOES, director of the division and head football coach; TRAUTWEIN, associate director in charge of intercollegiate athletics; NESSLEY, assistant director in charge of physical education program; HATCHER, chairman, women's department; TREPP, chairman, major curriculum for men; LATOURRETTE, recreation; RHOADS, intramural athletics; OLSON, athletic trainer; BELL, intramural sports; JOHNSON, head track coach, athletic ticket manager; BLOSSER, golf coach, assistant in football and basketball; WREN, head baseball coach, freshman football and basketball; BRINKER, head line coach in football; JACKSON, modern dance; SNYDER, head basketball coach, assistant in football; RICHEY, swimming coach, freshman football and baseball; GEORGE, swimming; LINN, supervising critic.

MEN**1, 2, 3, 4, 5. REQUIRED PHYSICAL EDUCATION (1, 1, 1, 1, 1)** Blosser and Staff

Required of all freshmen, and those sophomores who cannot meet required standards in physical proficiency and sports tests. These courses offer activity in seasonal team, dual, or individual sports, athletics, combatives, gymnastics, program techniques, and proficiency testing. 3 hrs. a week. Fee, \$1.50 a semester.

6, 7. PHYSICAL ACTIVITIES

(2, 2) Rhoads, Johnson

Required of all freshmen majors (and may be taken for the minor) in physical education and athletics. These courses meet three double periods a week. They include the theory and practice of fall, winter, and spring sports; gymnastics, mass conditioning exercises, and extensive testing. They are qualifying courses by which freshmen majors may determine their fitness to go on with the major program. 6 hrs. a week. Fee, \$1.50 a semester.

P. E. 6: Touch football, soccer, speedball, basketball, tumbling, stunts, apparatus, introductory swimming, and a battery of physical proficiency tests, including sports skill and knowledge and basic rhythms.

P. E. 7: Marching, conditioning, ranger and grass drill exercises, volleyball, track activities and relays, introductory golf and tennis, softball, and a battery of physical proficiency tests, including sports skill and knowledge.

9, 10, 11. ADAPTED ACTIVITIES

(1, 1, 1) Trepp and Staff

Students whose exercises should be restricted are assigned to activities adapted to their special needs. 3 hrs. a week. Prereq., medical permission. Fee, \$1.50 a semester.

117. ATHLETIC OFFICIATING

(2) Rhoads

A course designed to prepare students for athletic officiating in football and basketball.

119. PHYSICAL ACTIVITIES

(2) Trepp, Nessley

Required of all majors (and may be included for the minor) in physical education and athletics. Selected rhythmical activities, dual and individual sports (archery, handball, badminton, golf, tennis, horse shoes, ping pong, bowling, fly and bait casting), relays and mass games suitable for the elementary school program. Prereq., 6 or 7. Fee, \$1.50.

120. PHYSICAL ACTIVITIES

(2) Blosser, Nessley

Required of all majors (and may be included for the minor) in physical education and athletics. Combative sports (boxing, wrestling, fencing), gymnastics (advanced tumbling, stunts, pyramid building, heavy apparatus), relays and mass games suitable for the secondary school program. Prereq., 6 or 7. Fee, \$1.50.

133. THEORY AND PRACTICE OF ADAPTED ACTIVITIES

(2) Trepp

The principles and practice in the development of good postural habits, activities for the permanently disabled, and exercises for the underdeveloped and those with postural defects. Prereq., Zool. 123.

167e, 167f. ATHLETIC COACHING

(1 to 3, 1 to 3) Widdoes and Staff

(Same as Ed. 167e, 167f) The skills, techniques, rules, systems of play, coaching methods, organization, financing and management of athletic programs in interscholastic and intercollegiate competition. Questions such as squad personnel, school and community relationships, boosters or downtown quarterback clubs, recruiting, and subsidizing, district and regional tournaments, schedules, leagues, State Athletic Association regulations, equipment and facilities, sportsmanship codes, the amateur, eligibility, and other questions of interest to the athletic coach will be discussed.

P. E. 167e (Basketball and Baseball). P. E. 167f (Football and Track). Practice and participation in the gymnasium and on the field. Readings, discussions, reports and moving pictures of actual cases, theories, systems of play and problems relative to athletic coaching and competition.

Prereq., junior rank. Fee, \$1.50 a semester.

MEN AND WOMEN

18. LIFE SAVING METHODS (1) Rhoads, George
Techniques included in the test for Senior American Red Cross Life Saving are covered in the course and the certificate is granted upon satisfactory completion of the required work. 3 hrs. a week. Fee, \$1.50.

20. INSTRUCTOR'S LIFE SAVING METHODS (1) Rhoads, George
For students that have been certified as Senior American Red Cross Life Savers and wish to do advanced work in the skills and teaching techniques of water activity. The Instructor's Certificate is granted upon satisfactory completion of the required work. 3 hrs. a week. Fee, \$1.50.

102. PERSONAL AND COMMUNITY HEALTH (3) Hatcher, Trepp
Provides a knowledge of the hygienic practices and an appreciation of the means whereby the health of the individual and of the group may be maintained.

123. ANATOMY AND KINESIOLOGY (4) Elliott, Trepp
For course description, see Zool. 123. Fee, \$7.

127. FIRST AID (2) LaTourrette
Application of the principles and practice of American Red Cross First Aid. The Standard Certificate is granted if requirements are met.

128. PHYSICAL THERAPY (2) Olson
Theory and practice of massage and physical therapy. Prereq., Zool. 123. Fee, \$1.50.

150. RECREATION (3) LaTourrette
The course is divided into three units. The first unit reviews the theory of play and recreation; the second emphasizes party planning for large groups; and the third consists of working with low cost craft materials. 6 hrs. a week. Fee, \$1.50.

167h. TEACHING OF HEALTH (3) Trepp
(Same as Ed. 167h) Instruction, principles and curricula used in presenting health information to children of the different school levels. Prereq., 102 and Zool. 123.

167p. TEACHING OF PHYSICAL EDUCATION (1) Linn
(Same as Ed. 167p) Physical education for elementary and secondary schools. Not required of majors.

181. INTRAMURAL SPORTS (2) Rhoads
Theory and practice of minor sports and intramural organization.

204. HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION AND ATHLETICS (3) Hatcher, Rhoads
(1) A review of the history of physical education from the time of the Greeks, with emphasis on the development of various systems and their effects on our present day program. (2) The principles underlying physical education in the modern program of education. Prereq., Zool. 123.

206. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION AND ATHLETICS

(2) Hatcher, Nessley

Readings and discussions on typical methods of organizing and administering physical education, school and community health, recreation, and athletics in elementary and secondary schools, normal schools and colleges. Problems and cases which must be considered by the superintendent or principal together with the teacher or supervisor of health education, physical education and athletics, publicity, school and community relationships, personnel, facilities and courses of study will be discussed. Prereq., junior or senior rank.

209. TESTS AND MEASUREMENTS

(3) Nessley

A study of available tests and measurements for health education, physical education and athletics. These are analyzed to determine their place, use and possibilities in the program. Discussion and practice in handling of testing data by elementary statistical methods is included. Prereq., 10 hrs., junior or senior rank.

249. COMMUNITY RECREATION

(3) Nessley

A course for leaders and those interested in guiding, leisure time programs. Topics include: brief history of the play movement, programs and program making, general administration of playgrounds, community centers, and recreational activities. Prereq., 10 hrs.

252. PHYSICAL DIAGNOSIS

(3) Hudson and Staff

A study of the fundamental deficiencies and defects characteristic of children that handicap normal physical, mental, and social development. A study of the techniques in conducting health examinations, clinical service, etc., Prereq., 15 hrs.

351. SCHOOL HEALTH PROBLEMS

(3) Trepp

A survey of the contents and current problems in school health education. Studies are made of specific problems.

391. SEMINAR IN PHYSICAL EDUCATION AND ATHLETICS

(3) Nessley and Staff

For graduate students who wish to pursue research and investigation in health education, physical education, recreation or athletics. Topics and problems suitable for thesis writing, trends of the program, methods of research, writing practice and critical analysis of outlines for research study are considered. It is assumed that extensive reading and library usage will be necessary. By the conclusion of this course the student should have completed an acceptable outline of a proposed topic requiring further investigation, the normal outcome of which would be a thesis. Prereq., graduate standing; 24 hours of undergraduate study in the major field.

395. THESIS

(1 to 8) The Staff

Prereq., permission.

WOMEN

The following courses satisfy the physical education requirement of four hours for graduation: Nos. 1 through 132.

1, 2. SPORTS

(1, 1) The Staff

Activities are offered according to the season. Students may choose from field hockey, soccer, basketball, badminton, tennis, volleyball, gymnastics, and baseball. This course may be repeated if a different sport is taken. 3 hrs. a week. Fee, \$1.50 a semester.

3. BEGINNING SWIMMING

(1) George

This course is for students who are unable to take care of themselves in deep water. Orientation to water, safety, skills, elementary strokes and forms of diving are taught. 3 hrs. a week. Fee, \$1.50.

4. INTERMEDIATE SWIMMING

(1) George

Students who have passed the beginners' swimming tests at Ohio University, or at any beach or pool, may enter P. E. 4 classes. Also, any student without preliminary instruction who can swim free style in deep water for five minutes will be admitted. The elements of the nine basic strokes, plain diving and surface diving are taught. Prereq., 3 or equivalent. 3 hrs. a week. Fee, \$1.50.

6. ELEMENTARY TAP DANCING

(1) George

A course designed for beginners. 3 hrs. a week. Fee, \$1.50.

7-8. MODERN DANCE

(1-1) Jackson

Fundamentals of movement technique. An introduction to the concept of movement in relation to time, space (factors), and the factor of dynamics. 3 hrs. a week. Fee, \$1.50 a semester.

9, 10. ADAPTED ACTIVITIES

(1, 1) Bell

For students with postural defects and students whose activities must be restricted because of health. 3 hrs. a week. Prereq., permission. Fee, \$1.50 a semester.

15. FOLK AND NATIONAL DANCING

(1) Hatcher, Bell

The ability to dance in time with music is stressed. American square dances and European dances based on the schottische, polka, and waltz are taught. 3 hrs. a week. Fee, \$1.50.

16. FOLK AND NATIONAL DANCING

(1) Hatcher

A continuation of 15 using dances which involve more difficult steps. 3 hrs. a week. Prereq., 15, or dancing experience. Fee, \$1.50.

101. TENNIS

(1) Bell

This is a concentrated course for students who are interested in learning techniques and improving skills. It will meet daily for a half semester. Fee, \$1.50.

111. ADVANCED SWIMMING

(1) George

A course for those who have passed the Red Cross Swimmer's Test, its equivalent or has permission of the instructor. Analysis and skills of diving, and the recognized and variation strokes and fundamentals of competitive swimming are given. Prereq., 4 or permission. 3 hrs. a week. Fee, \$1.50.

112. SYNCHRONIZED SWIMMING

(1) George

This is a course dealing with the fundamental stunts and rhythmic swimming necessary in creating routines and patterns for synchronized swimming. Prereq., 111 or permission. 3 hrs. a week. Fee, \$1.50.

113. HIKING

(1) LaTourrette

Hikes are varied as to distance and places visited. First aid and rules of the road for hikers and practice in leading hikes are included. 3 hrs. a week. Fee, \$1.50.

114. CAMP CRAFT

(1) LaTourrette

This is a practical course in group work stressing skills necessary for outdoor living. Emphasis is placed on cooking, firebuilding, and construction of temporary equipment. One overnight hike is required. Given in alternate years. 3 hrs a week. Fee, \$1.50.

115, 116. MODERN DANCE, ADVANCED

(1, 1) Jackson

More complex coordinations and movement studies. Further study in the rhythmic, spatial, and dynamic bases of dance. Experimentation in form and composition. 3 hrs. a week. Prereq., permission. Fee, \$1.50 a semester.

121, 122. PHYSICAL ACTIVITIES

(2, 2) The Staff

Individual sports technique, folk dancing, gymnastics, squad work in tumbling and stunts. Fee, \$1.50 a semester.

131. MASS GAMES

(1) Bell

A program of games for primary and intermediate grades stressing the development of skills, and the proper spirit of victory and defeat. Emphasis is placed on program planning and the training of children to assume leadership in their games. Required of majors; recommended for elementary teachers, and students interested in recreational work with children. 3 hrs. a week. Fee, \$1.50.

133. THEORY AND PRACTICE OF ADAPTED ACTIVITIES

(2) Bell

Concerned with the organization of reconstructive programs specifically adapted to the need of physically handicapped individuals. Abnormal conditions such as posture defects, cardiac defects, foot defects, dysmenorrhea, post operative cases, and certain orthopedic conditions are described and therapeutic exercises evaluated. Recreational games and sports suitable to specific conditions are also included in the program. Prereq., 123.

137, 138. DANCE PROBLEMS

(1 or 2) Jackson

Composition of dance forms adapted to individual capacities. Directed readings on dance and related arts. Prereq., 115 or 116 and permission. Fee, \$1.50 a semester.

139. ATHLETIC OFFICIATING

(1) Hatcher, LaTourrette

Theory and practice of officiating field hockey, soccer, and basketball.

140. ATHLETIC OFFICIATING

(1) LaTourrette

Theory and practice of officiating volleyball, baseball, and track.

142. CAMP LEADERSHIP

(2) LaTourrette

Emphasis is placed upon the responsibilities of counselors and program planning. Experience is given by assisting with campcraft class. Given in alternate years.

167a. COACHING METHODS

(2) Hatcher, LaTourrette

(Same as Ed. 167a) Theory and practice of coaching field hockey, soccer, and basketball. Prereq., playing experience in the sports.

167b. COACHING METHODS

(2) LaTourrette

(Same as Ed. 167b) Theory and practice of coaching volleyball, baseball, track and field activities. Prereq., playing experience in the sports.

167n. TEACHING OF RHYTHMIC ACTIVITIES (Offered in 1951-1952)

(1) Jackson

(Same as Ed. 167n) Methods of teaching folk and tap dancing. Given in alternate years. Prereq., 15 or 122 and 6. Fee, \$1.50.

167o. TEACHING OF RHYTHMIC ACTIVITIES (Offered in 1950-1951)

(1) Jackson

(Same as Ed. 167o) Methods of teaching ballroom dancing and modern dance. Given in alternate years. Prereq., 8. Fee, \$1.50.

167s. TEACHING OF SWIMMING

(2) George

(Same as Ed. 167s) Methods and practice in the teaching of swimming. Fee, \$1.50.

PHYSICS

Professor Roseberry (chairman)

Associate Professors McClure, Pierce, Edwards

Acting Instructor DeVore

The major requirement in physics for the A.B. degree is a minimum of 24 semester hours with at least 12 hours in courses numbered 200 and above.

The major requirement in physics for the B.S. degree is a minimum of 36 semester hours, including 113, 114, 115, 205, 208, 209, 219, 220, 249, 250, and 2 to 6 semester hours in advanced laboratory courses. Electives may be chosen from courses above the 200 level.

The major requirement in physics for the B.S. in Education degree is given on page 128.

1, 2. THE PHYSICAL WORLD

(3, 3) Roseberry

The principles, methods, and philosophy of the physical sciences. The principal aims of the course are: (1) to study the historical evolution of certain physical concepts, (2) to illustrate and give practice in the type of reasoning employed by a scientist, (3) to present a general picture of nature's activities both large and small with the most important laws

that describe the order found therein. This course is designed for non-science majors who need a general laboratory physical science. It does not meet any professional requirements. The course is offered primarily for freshmen and sophomores; juniors and seniors will be admitted by permission only. 2 lec. and 2 lab. Fee, \$4 a semester.

5. 6. INTRODUCTION TO PHYSICS

(4, 4) Edwards

Mechanics, heat, sound, electricity, magnetism, and light. Indicated for nontechnical and premedic students. 3 lec. and 2 lab. Fee, \$5 a semester.

113, 114. GENERAL PHYSICS

(4, 4) McClure

3 lec. and 2 lab. Prereq., Math. 6. Fee, \$5 a semester.

115. ELEMENTARY SOUND

(2) Pierce

This course is to supplement Phys. 113 and 114. Some of the topics discussed are: wave motion, sound production, musical scales, sound reception and control, supersonic vibrations, and acoustics of auditoriums. Prereq., Math. 6.

116. X-RAY TECHNIC

(2) Roseberry

An experimental course designed to give medical technologists a foundation for technical training in radiography. The content of the course is: X-ray generating apparatus, protective measures, exposure factors, radiographic procedures, manipulation of films and intensifying screens, and dark-room technic in processing films. Prereq., 6. Fee, \$5.

168p. TEACHING OF PHYSICS

(2) Pierce

(Same as Ed. 168p) Objectives, selection of subject matter and laboratory work, and order and method of treatment. Prereq., one course in physics.

205. LIGHT: INTRODUCTION TO PHYSICAL OPTICS

(3) Roseberry

The elementary theory of interference, polarimetry, and special topics of physical optics. Emphasis is placed on experimental and practical applications. Prereq., 113 and 114.

208. X RAYS

(2) Roseberry

A descriptive course of the principles and applications of X rays to the problems of physics, medicine, and industry. A study of X-ray productions, absorptions, scattering, refraction, crystal diffraction, radiography, X-ray therapy, and applications of X rays to metallurgy. Prereq., 113 and 114.

209. HEAT

(3) Pierce

Temperature and its measurement, expansivity of solids and liquids, dynamical theory of heat, calorimetry, specific heats, thermal conduction, thermal properties of gases, change of phase, convection, radiant energy. Prereq., 114 and Math. 118.

210. THERMODYNAMICS

(3) Pierce

Temperature, work, thermodynamic systems, zeroth, first and second laws, Carnot cycle and Kelvin temperature scale, entropy, properties of pure substances, applications to certain special systems, change of phase. Emphasis will be laid on the development of thermodynamics as related to physical processes. Prereq., 209.

211. PHYSICAL OPTICS

(3) Roseberry

Designed to develop the theory of those phenomena of light which are characteristic of waves. The exact relations between refraction and wave length. The design of achromatic lenses. Diffraction phenomena of single and of many slits. Prereq., 113, 114, and Math. 118.

214. MODERN SPECTROSCOPY

(3) Roseberry

The principles and application of spectroscopy. The following topics are discussed: origin of spectra; Ritz principle of combination; Bohr's explanation, series lines in the spectra; neutral and ionized states, ionization potentials, electron orbits; elementary quantum mechanics; and the effect of electric and magnetic fields on a spectral line. Prereq., 113 and 114.

219, 220. ELECTRICITY AND MAGNETISM

(3, 3) McClure

An advanced course including also electrochemical properties of various substances, the calculation of magnetic fields by integration methods, a study of transient currents through inductive and capacitive circuits. Prereq., 113, 114, and Math. 118.

225. MECHANICS LABORATORY

(1 or 2) Pierce

Determination of "g" with Kater's pendulum, elastic and inelastic impact, moment of inertia, the gyroscope, viscosity of liquids, surface tension, study of centripetal force, Wilberforce spring, Young's Modulus by flexure, coupled pendulums. Prereq., 113, 114, and Math. 118. Fee, \$5.

226. HEAT LABORATORY

(1 or 2) Pierce

Mechanical equivalent of heat, heat of combustion of gas, ratio of specific heats for a gas, conductivity of solids, specific heat of carbon, heat of fusion of metals, absolute expansion of mercury, coefficient of expansion of wires and variation of coefficient with temperature, calibration of platinum resistance thermometer. Prereq., 113, 114, and Math. 118. Fee, \$5.

227. OPTICS LABORATORY

(1 to 3) Roseberry

Dispersion, resolving power, Fresnel and Fraunhofer diffraction, Newton's rings, Michelson interferometer, grating, refractometer, polarimeter and measurement of wave length. Emphasis on handling of precision equipment and accuracy of procedure. Prereq., 113, 114, and Math. 118. Fee, \$5.

228. SPECTROSCOPY LABORATORY

(1 to 3) Roseberry

Qualitative analysis by emission and absorption methods, experience on prism and grating spectrometers in ultra violet and visual spectrum. Methods of excitation, calibration, and adjustment of various mountings, spectrophotometry, photographic procedure. Emphasis on practical experimental technic. Prereq., 113, 114, and Math. 118. Fee, \$5.

229. ELECTRONICS AND ELECTRICAL MEASUREMENTS LABORATORY

(1 to 4) Edwards

Thermionic emission including Richardson's law, Langmuir's law and Tungar rectifier, charge on the electron, specific charge of the electron, resonance potentials, electrical discharge through gases, photo

electricity, fundamentals of microwaves. Study of electrometers and the ballistic galvanometer, dielectric constants, magnetic hysteresis, transients and the use of the oscillograph. Prereq., 113, 114, and Math. 118. Fee, \$5.

230. X RAYS AND RADIOACTIVITY LABORATORY (1 to 3) Edwards

Powder and Laue methods of crystal analysis, X-ray spectral distribution curves with ionization spectrometer, absorption coefficients and limits, Moseley's law, scattering polarization and refraction of X rays. Geiger-Muller counters, electrometer tubes, and curved crystal spectrograph. Radioactive decay and radiation analysis. Prereq., 113, 114, Math. 118. Fee, \$5.

249, 250. ATOMIC PHYSICS (3, 3) Edwards

An introduction to atomic physics designed for students of physics as well as for students of chemistry and zoology. Topics include elementary particles, electromagnetic radiation, the hydrogen atom, atomic spectra and electron distribution, nuclear energy. Prereq., 113, 114, Math. 118.

261. MINOR PROBLEMS IN PHYSICS (1 to 4) The Staff

The course permits qualified students to carry out a minor research in any field of physics in order to increase their knowledge and techniques. Prereq., 15 hrs. and permission. Fee, \$5.

305-306. THEORETICAL PHYSICS (4-4) Edwards

Advanced dynamics, Lagrange's equations, Hamilton's principle, canonical equations, Hamiltonian-Jacobi equation, hydrodynamics, statistical mechanics, kinetic theory. Prereq., Math. 215 and permission.

311-312. ADVANCED ATOMIC STRUCTURE AND THEORY OF QUANTA (3-3) Roseberry

Elementary constituents of the atom, hydrogenic atoms and their spectra, general theorems of optical spectra, old quantum theory, X-ray and molecular spectra. Prereq., Math. 215 and permission.

381. RESEARCH IN PHYSICS (1 to 3) The Staff

Maximum credit in course, 6 hours. Prereq., 15 hrs. and permission. Fee, \$5.

391. SEMINAR IN PHYSICS (1) The Staff

Prereq., 15 hrs.

395. THESIS (1 to 6) The Staff

Prereq., permission.

PORtUGUESE—See Romance Languages

PRINTING ADMINISTRATION

Associate Professor Kinison

11. HAND COMPOSITION AND TYPOGRAPHY (1 to 3) Kinison

A laboratory course in hand composition. It includes the basic operations that are used in general printing. Tabular work, rule forms, and display composition form a part of the laboratory exercises. Maximum credit in course, 6 hrs. 1 lec. and 4-10 lab. Fee, \$3.

21. ELEMENTS OF PRESSWORK (1 to 3) Kinison
Includes production problems in the operation of presses, adjustment and care of pressroom machinery, selection and handling of paper, and matching and mixing of inks. Maximum credit in course, 6 hrs. 1 lec. and 4-10 lab. Fee, \$3.

112. ORGANIZATION OF PRINTING PRODUCTION (4) Kinison
An introduction to the problems involved in commercial printing. It includes planning, layout, estimating, and scheduling of the complete manufacture of printing projects. 1 lec. and 6 lab. Prereq., 11, 21, or Ind. A. 142. Fee, \$2.

144. PHOTOLITHOGRAPHY (3) Kinison
Practice in the setting and distribution of Multigraph type, operation of the Multigraph, practice in the making of off-set plates of several kinds, and operation of the off-set press. Plate making involves the use of the copying camera and the whirler. 6 lab. Fee, \$3.

PSYCHOLOGY

Professors Lehman, A. C. Anderson (chairman),
Patrick, Scott, Paulsen, Gentry
Instructors Cable, Sherman
Acting Instructors S. S. Anderson, Maxwell

The major requirement in psychology for the A.B. degree is 24 semester hours including Psych. 1 and 109, with the remaining hours approved by the department advisers. The following courses in other departments and colleges are suggested: Ed. 281, Math. 226, H. R. 201, Stat. 155-156, and Zool. 135 or 136, 204. All graduate majors are expected to attend a semi-monthly non-credit seminar.

The major requirement in psychology for the B.S. in Education degree is given on page 128.

1. GENERAL PSYCHOLOGY (3) The Staff
An elementary study of the most significant facts and principles of mental life. Lectures, class demonstrations, discussions. Fee, \$1.

2. PSYCHOLOGICAL APPROACH TO EVERYDAY PROBLEMS (3) Scott
An attempt is made to use the principles of psychology in the solution of the problems and adjustments of everyday life. Prereq., 1.

3. CHILD PSYCHOLOGY (3) Lehman
Topics considered: sensory life of the child, emotions, curiosity, imagination, memory, imitation, language, art, moral and religious development. Prereq., 1.

5. EDUCATIONAL PSYCHOLOGY (3) Lehman, Patrick, Gentry
The nature and rate of the learning process. The influence upon learning efficiency of such factors as heredity and environment, maturation, emotion, motivation, etc. Prereq., 1. Fee, \$1.

6. PSYCHOLOGY OF ADVERTISING AND SELLING (3) A. C. Anderson
Prereq., 1.

9. IMPROVEMENT OF READING AND STUDY METHODS (1) Gentry
Improvement of the study and reading habits of class members; how teachers may develop more effective pupil study habits. Credit not counted toward a degree.

101. ADVANCED GENERAL PSYCHOLOGY (3) Scott
Emphasis upon the main problems of psychology, giving the points of view of the different schools. Many fields of psychology are rapidly surveyed. Prereq., 1.

109. EXPERIMENTAL PSYCHOLOGY (3) Paulsen
Training in the scientific methods and tools of modern experimental psychology. Individual reports of experiments in the following fields: sensory processes, individual differences, learning, memory, etc. 2 lec. and 4 lab. Prereq., 1. Fee, \$3.

113. PSYCHOLOGY OF ADOLESCENCE (Junior and Senior High School Pupils) (2) Gentry
A study of the physical growth, glandular changes, and emotions of adolescents. Interests, religious experience, and social adjustment are considered. Prereq., 1.

131. EMPLOYEE SELECTION AND PLACEMENT (2) Paulsen
Evaluation of tests and other selective devices for employee selection, placement, and promotion in industry. Lecture and laboratory combined. Fee, \$1.

133. INDUSTRIAL PSYCHOLOGY (2) Scott, Paulsen
Learning, training, fatigue, motivation, and environmental conditions as they affect the individual's performance. Lecture and laboratory combined.

201. ADVANCED EXPERIMENTAL PSYCHOLOGY (3) Paulsen
Research on a topic selected by the student. Prereq., 109 and 3 hrs. additional. Fee, \$3.

203. MENTAL MEASUREMENTS (3) A. C. Anderson, Paulsen
The administration, methods, and results of individual and group intelligence tests. 2 lec. and 1 lab. Prereq., 6 hrs. Fee, \$1.

204. PSYCHOLOGY OF EXCEPTIONAL CHILDREN (2) Lehman
The growth and development of nontypical children with special reference to the nature, the cause of, and the possibility of remedial treatment. Speech disorders, left-handedness, deafness, blindness, delinquency, psychopathy, special talents and defects, and other characteristics of extreme deviates are considered. Prereq., 6 hrs.

205. CLINICAL PSYCHOLOGY (3) Gentry
A survey of methods and some practice in diagnosing certain vocational and educational abilities and disabilities in children and adults. Prereq., 203. Fee, \$1.

207. COMPARATIVE AND GENETIC PSYCHOLOGY (3) Patrick
Behavior of lower and higher organisms leading up to man is considered. A comparative-genetic-psycho-biological approach is maintained. 2 lec. and 2 lab. Prereq., 6 hrs., or 3 hrs. and 6 hrs. zoology. Fee, \$3.

209. MOTIVATION AND EMOTIONS (3) Patrick
The dynamics of animal and human behavior: a study of drives, desires, incentives; a study of emotion in relation to frustration of motives. Prereq., 6 hrs.

210. MENTAL HYGIENE (3) Patrick
The course aims to evaluate and synthesize information bearing upon mental health from the following fields: psychology, psychiatry, physiology, medicine, and sociology. Prereq., 6 hrs.

212. ABNORMAL PSYCHOLOGY (3) Scott
Considers man's mental deviations from the normal; the theory, application, and limitations of psychoanalysis; methods of studying abnormal mental processes. Clinics at hospitals. 2 lec. and 1 lab. Prereq., 8 hrs., or 6 hrs. and 6 hrs. zoology. Fee, \$1.

215. SOCIAL PSYCHOLOGY (3) Paulsen
An introductory study of the social-mental relations between individuals, significance of instincts, habit formation, and reflection in human social life. Methods of investigating social behavior. Prereq., 6 hrs.

216. PSYCHOLOGY OF INDIVIDUAL DIFFERENCES (2) Lehman
The extent and the nature of individual differences, the influence thereupon of such factors as heredity, environment, race, nationality, age, and sex. Miscellaneous applications are also considered. Prereq., 6 hrs.

217. PSYCHOLOGY OF PERSONALITY (3) Gentry
Influence of home and school on training and development of children's personality; also adult personality in business and social life. Prereq., 8 hrs. Fee, \$1.

220. PERSONNEL AND VOCATIONAL COUNSELING (2) Paulsen
Topics dealt with will bear upon personnel and vocational problems to be met in industrial, commercial, and school work. Prereq., 6 hrs.

223. RESEARCH METHODS AND TECHNIQUES (2) Paulsen
Study of research methods especially suited to handling problems in social sciences. Major emphasis is placed on the application and interpretation of statistical techniques. Prereq., graduate student or undergraduate major in social science with 8 hrs. completed in major field.

225. MINOR PROBLEMS IN PSYCHOLOGY (1 to 3) The Staff
Training in the scientific study of some problem of special interest to the student. Relatively independent work emphasized. Maximum credit in course, 6 hrs. Prereq., 8 hrs. and permission.

233. LEARNING AND MEMORY (2) A. C. Anderson
Lectures and readings attempting to systematize the experimental and theoretical work in this field. Prereq., 8 hrs.

235. HISTORY OF PSYCHOLOGY (2) Scott
The evolution of methods and concepts of psychology with emphasis on more recent trends. Prereq., 8 hrs.

237. COUNSELING AND PSYCHOTHERAPY (3) Patrick
Analysis, evaluation, and practice in use of techniques and procedures in counseling and psychotherapy. Prereq., 6 hrs. Fee, \$1.

381. RESEARCH IN PSYCHOLOGY (2 to 4) The Staff
Prereq., 15 hrs. and permission.

394. ADVANCED SEMINAR IN PSYCHOLOGY (2 to 4) The Staff
Trends and methods in psychology are critically reviewed. Cooperative investigations, findings of many studies coordinated with the student's own findings. Prereq., 15 hrs. and permission.

395. THESIS (1 to 8) The Staff
Prereq., permission.

RADIO

Professor Green
Associate Professor Jukes
Assistant Professor Turnbull
Instructors Lewis, Carpenter

5. RADIO SPEECH (2) Jukes, Lewis
Microphone technique. Pronunciation problems. Practice in reading various types of materials. 1 lec. and 2 lab. Prereq., Speech 2. Fee, \$2.

105. RADIO BROADCASTING MECHANICS (2) Jukes
A brief study of the apparatus used in radio broadcasting, including microphones, amplifiers, studio acoustics, control room, transmission lines, radio transmitter, and antenna. 1 lec. and 2 lab. Fee, \$2.

125-126. RADIO PLAY PRODUCTION (3-3) Jukes
Radio techniques including the study of sources for radio material and the editing and preparation of radio play script. Use of sound effects. Practice work in the university studio and in nearby radio stations. 1 lec. and 4 lab. Prereq., 5.

179. INTRODUCTION TO RADIO (2) Carpenter, Lewis
This course deals with the history, development, and use of the radio as a socializing influence. Consideration will be given to its educational, cultural, and journalistic aspects. Attention will also be paid to American and foreign radio systems, mechanics of broadcasting, rules of broadcasting, major and minor networks, the development of radio advertising, public service programs and their possibilities, and the future of radio as an instrument of national and world communication.

180. RADIO NEWS WRITING AND EDITING (2) Carpenter
The study of the principles of writing and editing news for broadcasting combined with preparation of the various types of news scripts from facts gathered firsthand and from the news wire services of the Associated Press, United Press, Press Association, and United Press

Radio. Also, consideration will be given to the problem of handling news interpretation and editorial comment. Prereq., 179, Jour. 103, and Jour. 107. Fee, \$2.

185. RADIO NEWS PRACTICE

(2 or 3) Carpenter

A laboratory course in the production of regular news shows covering both the preparation of copy and the actual broadcasts of the script. Maximum credit in course, 6 hrs. Prereq., 180 and Jour. 107. Fee, \$3.

209. RADIO ADVERTISING

(2) Turnbull

This course will deal with the preparation of copy, both spot and program commercials, the planning of campaigns, selling problems, the handling of accounts, the determination of rates, measurement, and testing, merchandising and other services, sales promotion, agency relations, ethics, and standards. Prereq., 179 and Advt. 155.

211. RADIO MANAGEMENT

(2) Turnbull

Consideration of the legal, technical, and business principles and practices of station maintenance and operation. Subject matter will include: accounting and budgeting, traffic, promotion, publicity, and public relations, public service, research and planning, legal problems, including censorship, copyright, libel and slander, codes and FCC rules and regulations, and methods of handling controversial topics. Prereq., 179, 180, 209, Advt. 155.

216. WRITING FOR RADIO

(2) Lewis

Writing of scripts including dramatizations of significant and human interest stories which have appeared in newspapers, straight and dramatized commercials, original and adapted short shorts, sketches and short stories. Sound and production problems for the scripts will be worked out in cooperation with students in 125. Prereq., 12 hrs. radio and journalism or 12 hrs. English, and junior or senior rank.

247. RADIO WORKSHOP

(1 or 2) Green, Jukes, Lewis

Problems in radio. Rehearsal, performance, and technical work connected with radio broadcasting. A maximum of seven hours credit may be elected by a student. Prereq., 6 hrs. in radio and permission.

391. SEMINAR IN RADIO PROBLEMS

(2 or 3) Jukes, Carpenter

Individual reading projects covering current literature and advanced research in various phases of radio, such as production problems, radio music, directing, writing, announcing, and the evaluation of radio programs. Class reports and discussions. Prereq., 12 hrs.

395. THESIS

(1 to 6) Jukes

Prereq., permission.

Suggested courses:

Dramatic Art (See page 201)

Speech and Speech Correction (See page 309)

E. E. 101-102—Fundamentals of Radio

E. E. 205—School Acoustics

Mus. 5—Music Appreciation

Jour. 103—Introduction to News Writing

Jour. 116—Sports Writing and Editing

RESERVE OFFICERS' TRAINING CORPS*

Colonel Speidel, Coordinator

AIR SCIENCE AND TACTICS

Major Walker, Professor of Air Science and Tactics

Captains Wilson, Williams, Edwards, Daggett

First Lieutenant Cron

Sergeants McMillon, Jenkins, Dutton, Michalek

1, 2. BASIC COURSE

(2, 2) Walker, Edwards, Cron, McMillon

Military policy of the U.S., National Defense Act, military organization, evolution of warfare, maps and aerial photographs, military psychology and personnel management, first aid and hygiene, geographical foundations of national power, military problems of the U.S., military mobilization and demobilization. Three hours a week.

101, 102. BASIC ADMINISTRATION

(2, 2) Walker, Edwards, Cron, McMillon

Introduction to Air Force specialization and technology: publications and military correspondence, pay and allowances and organizational records, aeronautical terms and the aircraft, theory of flight, aircraft power plants, weather, navigation, types of military aircraft, aircraft fighting equipment, guided missiles, air doctrine. Three hours a week.

101, 102. BASIC COMMUNICATIONS

(2, 2) Williams, Jenkins

Introduction to Air Force specialization and technology: direct current, principles and magnetism; alternating current, principles and application; aeronautical terms and the aircraft; theory of flight; aircraft power plants; weather; navigation; types of military aircraft; aircraft fighting equipment; guided missiles; air doctrine. Three hours a week.

121, 122. ADVANCED ADMINISTRATION

(3, 3) Daggett, Edwards, Dutton

Introduction to Air Force supply procedures and miscellaneous supply functions, individual records, base administration, non-appropriated funds, responsibilities of administration, transportation, organization of the Department of Defense, requisitioning, accounting, issue and turn-in of supplies. Three hours a week. Prereq., two years of basic courses or one year active service and permission of the P.A.S.&T.

121, 122. ADVANCED COMMUNICATIONS

(3, 3) Williams, Jenkins

Introduction to Air Force communications systems: telephony, teletypewriter, radio, transmission lines, etc., including the responsibilities and duties of the USAF communications officer, nomenclature system, principles and fundamentals of wire and radio communications, radar, supply, inspection, maintenance, and history. Five hours a week. Prereq., two years of basic courses or one year active service and permission of the P.A.S.&T.

*Each ROTC course will include instruction and practice in leadership, drill, and exercise of command approximately fifteen hours per semester, or thirty hours per academic year.

SUMMER CAMP ROTC

(240 hours) Camp Staff

A six weeks' training program to be conducted at a post, camp or base applicable to the specialized course student is pursuing. Summer training will supplement instruction given in Air Science courses 121, 122, 151, and 152 with practical work in leadership and exercise of command, interior guard duty, chemical warfare training, maps and photographs, weapons and marksmanship, tactical exercises, and specialized on-the-job training. Prereq., Advanced Air Force 121, 122.

151, 152. ADVANCED ADMINISTRATION (3, 3) Cron, Daggett, Edwards, Dutton

Conclusion of the more advanced techniques and procedures of Air Force administration: records, funds, supply procedures; staff organization; processes and developments; command and staff functions; military teaching methods; the objectives, principles, and primary functions of personnel management, including: cost reporting and control, responsibilities, survey techniques, and job method improvement. Five hours a week. Prereq., Advanced Administration 121, 122 and permission of the P.A.S.&T.

151, 152. ADVANCED COMMUNICATIONS (3, 3) Williams, Jenkins

Conclusion of the more advanced procedures, processes, and operations, of Air Force communications; latest developments; staff functions, command and staff; military teaching methods; military administration; the objectives, principles and primary functions of management, including: cost reporting and control, training responsibilities, and survey techniques. Five hours a week. Prereq., Advanced Communications 121, 122, and permission of the P.A.S.&T.

MILITARY SCIENCE AND TACTICS

Colonel Speidel, Professor of Military Science and Tactics

Lieutenant Colonel Gardner

Major Lynch

Captains McCanna, Burns

First Lieutenant Skinner

Sergeants Sampselle, Sneed, Ledford,

Hawkins, Petro, Mareczko

1.2. BASIC COURSE

(2, 2) Speidel, Walker, Sampselle

Military policy of the U.S., National Defense Act, military organization, evolution of warfare, maps and aerial photos, military psychology and personnel management, first aid and hygiene, geographical foundations of national power, military problems of the U.S., military mobilization and demobilization. Three hours a week.

101, 102. BASIC INFANTRY

(2, 2) Lynch, Sneed, Ledford

Introduction to branch technique, organization, weapons, marksmanship, technique of fire, combat formations, scouting and patrolling, elementary tactics. Three hours a week.

101, 102. BASIC QUARTERMASTER

(2, 2) Burns, Skinner, Hawkins

Introduction to branch technique; organization for supply in the army; organization and functions of the Quartermaster Corps; classification of supplies; property accountability and responsibility; research and development; organization, functions, and operation of quartermaster units; unit and organizational supply. Three hours a week.

121, 122. ADVANCED INFANTRY

(3, 3) Gardner, Lynch, McCanna

Tactics and technique of infantry to include organization of the infantry division, weapons, gunnery, communications, combat intelligence, estimate of the situation and combat orders, field fortifications, tactics of rifle and heavy weapons platoons and companies. Five hours a week. Prereq., two years of basic courses or one year of active duty and by permission of the P.M.S.&T.

121, 122. ADVANCED QUARTERMASTER

(3, 3) Burns, Skinner, Hawkins

Organization, mission, functions and responsibilities of the Quartermaster Corps; station supply; depot supply; storage, warehousing and materials handling; commissary operations, garrison and field bakery operations; post and field laundry operations; salvage operation and procedures; maintenance and reclamation of quartermaster supplies; graves registration; food service activities; individual weapons and marksmanship. Five hours a week. Prereq., two years of basic courses or one year of active duty and by permission of the P.M.S.&T.

SUMMER CAMP ROTC

(240 hours) Camp Staff

A six weeks' training program to be conducted at a post, camp or base applicable to the specialized course student is pursuing. Summer training will supplement instruction given in Military Science courses 121, 122, 151 and 152 with practical work in leadership and exercise of command, interior guard duty, chemical warfare training, maps and photographs, weapons and marksmanship, tactical exercises, and specialized on-the-job training. Prereq., Advanced Infantry or Quartermaster 121, 122.

151, 152. ADVANCED INFANTRY

(3, 3) Speidel, Gardner, Lynch, McCanna

Conclusion of the more advanced tactics and technique of infantry to include equipment and duties of personnel of the infantry division, command and staff, communications, motors and transportation, supply and evacuation, troop movement, new developments, the military team, tactics of the infantry battalion in attack and defense. Five hours a week. Prereq., Advanced Infantry 121, 122 and by permission of the P.M.S.&T.

151, 152. ADVANCED QUARTERMASTER

(3, 3) Burns, Skinner, Hawkins

Conclusion of the more advanced procedures and operations of the Quartermaster Corps and their relation to the combatant arms to include fiscal and procurement procedures, command and staff, combat intelligence, technical intelligence, organization and functions of the combatant arms, organization and functions of the technical services, quartermaster operations in the zone of the interior and in the theater of operations.

ROMANCE LANGUAGES

Professors Noss, Whitehouse,
Wilkinson, Ondis
Associate Professors Renkenberger (chairman), Rice
Assistant Professor Leete
Instructor Witsberger

The major requirement in French, Italian, or Spanish for the A.B. degree is 20 hours above course 1-2 in the language. A major in Romance languages or Romance philology consists of 20 hours above course 1-2 in one language and at least one year in each of two other Romance languages.

The major requirements for French, Italian, or Spanish for the B.S. in Education degree are given on pages 126, 127, and 128.

A candidate for the master's degree with a major in a Romance language is required to include at least 4 hours of Romance philology in courses above 300; such a candidate with a minor in a Romance language is required to include at least 2 hours in a philology course above 300.

FRENCH

1-2. BEGINNING FRENCH (4-4) The Staff
Pronunciation, essentials of grammar, oral practice, and reading.

5. FRANCE IN THE TWENTIETH CENTURY (1) Noss
A cultural survey in English. A study of the geography, history, art, music, literature, press, theater, and customs. Emphasis on the ideals and institutions of France since 1900. No knowledge of French required.

100. INTERMEDIATE FRENCH (1 to 3) The Staff
Review of grammar, composition, conversation, and varied readings. The course fits the needs of those desiring either semester of second year French, and it may be taken either before or after Fr. 101 without duplication. Prereq., 2 or 2 yrs. high school French.

101-102. INTERMEDIATE FRENCH (4-4) The Staff
Grammar review, drill in idioms and composition, and reading of a variety of texts in modern French literature. Prereq., 2 or 2 yrs. high school French.

115. FRENCH PHONETICS (2) Noss
A course designed to improve pronunciation by the study of individual sounds, syllabification, isolated words, and connected speech. Exercises in articulation and diction. Frequent use of phonograph records. Prereq., 102.

119, 120. FRENCH CIVILIZATION (2 or 3, 2 or 3 as scheduled) Noss
A survey of the geography, history, current events, customs, government, education, science, press, art, and music of France. Readings in French and discussions in English. Prereq., 102 or 3 yrs. high school French by permission.

123, 124. FRENCH CONVERSATION

(1 or 2, 1 or 2) The Staff

This course aims to develop the student's ability to speak French. Constant practice in the vocabulary and idioms of everyday speech. The subject matter deals largely with French life and customs. Prereq., 102 or 3 yrs. of high school French.

143. FRENCH COMPOSITION

(1 to 3) Wilkinson

An introductory course in composition and stylistics of intermediate difficulty, with review of pronunciation and much oral practice. Prereq., 101.

165f. TEACHING OF FRENCH

(2) Noss

(Same as Ed. 165f) Practical methodology in the modern language field. Study of recent trends. Review of grammar from the pedagogical point of view. Exercises in practice teaching. Suggestions for projects, the choice of text books, dramatics, and the French club. Prereq., 102.

165o. TEACHING OF FRENCH AND ADVANCED FRENCH GRAMMAR

(2 or 3 as scheduled) Wilkinson

(Same as Ed. 165o) Prereq., 261 or, in unusual cases, special permission and 102.

201, 202. SURVEY OF FRENCH LITERATURE

(1 to 4, 1 to 4) Wilkinson, Rice

A general view of French literature from the beginning. Special topics for investigation by advanced students. Collateral readings and reports. The work will ordinarily be arranged in four periods: first hour, lecture; second hour, *explication de textes*; third hour, reports on supplementary reading; fourth hour, special investigation. Prereq., 102.

203, 204. READINGS FROM FRENCH LITERATURE

(1 to 4, 1 to 4) The Staff

Selections vary with the needs of the class or the student. Maximum credit in course, 16 hrs. Prereq., 102.

205, 206. THE FRENCH NOVEL

(1 to 3, 1 to 3) The Staff

History of the novel in France from the Middle Ages to modern times. Prereq., 102.

211, 212. SEVENTEENTH CENTURY DRAMA

(1 to 3, 1 to 3) Noss

A study of the comedies of Moliere and the tragedies of Corneille and Racine. Prereq., 102.

219, 220. FRENCH ROMANTICISM (1951-1952)

(2, 2) Noss

A study of the development of lyric poetry, the novel, and the drama during the first half of the nineteenth century. Prereq., 102.

228. SIXTEENTH CENTURY FRENCH LITERATURE

(2 or 3) Rice

Development of French thought during the Renaissance as seen in the works of Rabelais, Calvin, the Pleiade, Montaigne, and others. Prereq., 6 hrs. beyond 102.

231, 232. SEVENTEENTH CENTURY FRENCH LITERATURE

(2 or 3, 2 or 3) Noss

Study of seventeenth century literature, with the exception of the drama. Selected readings from Malherbe, Descartes, Pascal, La Fontaine, Mme. de Sevigne, Boileau, Mme. de La Fayette, La Rochefoucauld, La Bruyere, and Fenelon. Prereq., 102.

235, 236. EIGHTEENTH CENTURY FRENCH LITERATURE

(1 to 3, 1 to 3) Renkenberger

A study of the literature of France from 1715 to the French Revolution. Readings and reports, class discussions, and lectures. Prereq., 102.

239, 240. NINETEENTH CENTURY FRENCH DRAMA

(1 to 4, 1 to 4) Wilkinson, Renkenberger

History of the French drama beginning with the preromantic movement. Special topics for investigation by advanced students. Collateral readings and reports. The work will ordinarily be arranged in four periods: first hour, lecture; second hour, *explication de textes*; third hour, reports on supplementary reading; fourth hour, special investigation. Prereq., 102.

244. ADVANCED FRENCH COMPOSITION (1 or 2 as scheduled) Wilkinson

Includes drill in pronunciation with phonetics. Prereq., 102.

261-262. ADVANCED FRENCH GRAMMAR (1951-1952) (1 to 3 - 1 to 3) Wilkinson

This course should be taken after or simultaneously with R. Philol. 225. Prereq., 3 yrs. of college French or B in 102.

271. ADVANCED FRENCH (1 to 4) Noss

Specialized courses conducted in French designed to meet the special interests of advanced students. Maximum credit in course, 16 hrs. Prereq., 6 hrs. beyond 102.

- a. Seventeenth Century Prose
- b. Boileau
- c. Moliere
- d. Racine
- e. Mme. de Sevigne
- f. Nineteenth Century Poetry
- g. Modern French Novel
- h. Modern French Drama

281. RESEARCH IN FRENCH LANGUAGE AND LITERATURE (1 to 4) The Staff

A course designed to promote independent work in the study of special linguistic and literary problems. Maximum credit in course, 16 hrs. Prereq., 14 hrs. beyond 102 and permission.

321-322. ROMANCE PHILOLOGY (OLD FRENCH)

See "Romance Philology."

395. THESIS (1 to 8) The Staff

Prereq., permission.

ITALIAN**1-2. BEGINNING ITALIAN** (1 to 5 - 1 to 5) The Staff

Pronunciation, principles of Italian grammar, and practice in the use of the language. Offered frequently as a two-hour course of special interest to music majors and others wishing to learn the fundamentals of pronunciation and the minimum essentials of grammar.

101-102. INTERMEDIATE ITALIAN (1 to 4 - 1 to 4) The Staff

Review of grammar, study of idioms, and reading in modern Italian literature with some emphasis on diction and conversation; also a systematic study of the verb. Prereq., 2 or 2 yrs. high school Italian.

201, 202. SURVEY OF ITALIAN LITERATURE (1 to 3, 1 to 3) The Staff
 Brief outline of the history of Italian literature given in English or in Italian according to the nature and preparation of the class. Prereq., 102.

203, 204. READINGS FROM ITALIAN LITERATURE (1 to 4, 1 to 4) The Staff
 Selections vary with the needs of the class or the student. Prereq., 102.

271. ADVANCED ITALIAN (1 to 4) The Staff
 Advanced work in language and literature with special instruction of a technical character in Italian. Individual work done under the guidance of instructors. Maximum credit in course, 16 hrs. Prereq., 20 hrs. The offerings are as follows:

- a. General introduction to the study of the literature of the thirteenth century, including the chief philological principles involved in the formation of Old Italian.
- b. The fourteenth century, including special study of Dante, Petrarch, or Boccaccio.
- c. The Renaissance in Italy.
- d. Il Seicentismo. Decadence and affectation in Italian letters with consideration of analogous movements in other modern literatures.
- e. The eighteenth century, including Goldoni and Alfieri.
- f. The nineteenth century. Romanticism and the Risorgimento.
- g. Contemporary Italian literature.
- h. Storia dell'Italia Moderna.

395. THESIS (1 to 8) The Staff
 Prereq., permission.

PORtUGUESE

1-2. BEGINNING PORTUGUESE (1 to 4 - 1 to 4) Whitehouse
 Introduction to the rudiments of Portuguese, supplemented by reading and practice in the spoken language.

103. READINGS IN PORTUGUESE (1 to 3) Whitehouse
 A study of Brazilian novels and short stories; review of grammar and conversation. Maximum credit in course, 6 hrs. Prereq., 2.

ROMANCE PHILOLOGY

225-226. GENERAL ROMANCE LINGUISTICS (1 or 2 - 1 or 2) The Staff
 Introduction to graduate courses in philology. A study of Vulgar Latin forms in connection with the general philology of French, Italian, Portuguese, and Spanish. Correct pronunciation of the modern languages is stressed. Prereq., Fr., It., Lat., or Sp. 102.

321-322. ROMANCE PHILOLOGY (OLD FRENCH) (2-2) The Staff
 Phonology and morphology for thorough preparation of necessary linguistic background, with readings from the most ancient literary

monuments in French. Prereq., 16 hrs. in French and 16 hrs. in another Romance language or in Latin. R. Philol. 226 is advised but not required.

341-342. ROMANCE PHILOLOGY (OLD SPANISH AND PORTUGUESE)

(2-2) The Staff

Phonology and morphology for thorough preparation of necessary linquistic background, with readings from the most ancient literary monuments in Spanish and Portuguese. Prereq., 16 hrs. in Spanish and 16 hrs. in another Romance language or Latin. R. Philol. 226 is advised but not required.

395. THESIS

(1 to 8) The Staff

Prereq., permission.

SPANISH**1-2. BEGINNING SPANISH**

(4-4) The Staff

Introduction to the rudiments of Spanish grammar. Reading and practice in conversation.

100. INTERMEDIATE SPANISH

(1 to 3) The Staff

Review of grammar with composition and varied readings. The course fits the needs of those desiring either semester of second-year Spanish, and it may be taken either before or after Sp. 101 without duplication. Prereq., 2 or 2 yrs. high school Spanish.

101-102. INTERMEDIATE SPANISH

(4-4) The Staff

Review of grammar, study of idioms, composition, conversation, and varied reading in modern literature. Prereq., 2 or 2 yrs. high school Spanish.

103. SPANISH CULTURE AND CIVILIZATION (1 or 2 as scheduled) Whitehouse

The history, literature, and cultural development of Spain. Conducted in English.

113, 114. SPANISH COMPOSITION AND CONVERSATION

(1 or 2, 1 or 2) Whitehouse, Ondis

Prereq., 102.

141-142. COMMERCIAL SPANISH

(2 to 4 - 2 to 4) Ondis, Renkenberger, Rice

Rapid review of Spanish grammar. Study of commercial correspondence and the diplomatic documents and the relative technical terminology. Extensive practice in translating and writing commercial letters and reports in Spanish. Prereq., 102.

165s. TEACHING OF SPANISH

(2) Whitehouse, Ondis

(Same as Ed. 165s) This course deals with a study of classroom procedure and modern language bibliography, selection of suitable texts, and the development of Spanish civilization. Prereq., 102.

201, 202. SURVEY OF SPANISH LITERATURE (1 to 3, 1 to 3) Whitehouse, Ondis

Historic and literary study of Spain from the Middle Ages to the present time. Prereq., 102.

203, 204. READINGS FROM SPANISH LITERATURE (1 to 4, 1 to 4) The Staff

Selections vary with the needs of the class and the student. Prereq., 102.

205, 206. THE SPANISH DRAMA

(2 or 3, 2 or 3) The Staff

Sp. 205 traces the drama in Spain from its origins to 1700; Sp. 206, from 1700 to the present. Prereq., 102.

207. THE GOLDEN AGE

(2 or 3 as scheduled) Whitehouse, Ondis

Historic and literary study of the sixteenth and seventeenth centuries. Works of the leading dramatists, as Lope de Vega, Calderon, Tirso de Molina, etc., and some prose, except Cervantes, are read. Prereq., 102.

208. CERVANTES

(1 to 3) Whitehouse, Ondis

The chief works of Cervantes are studied, with particular attention to the *Novelas Ejemplares* and the *Quijote*. Prereq., 102.

210. HISPANIC-AMERICAN CIVILIZATION

(1 or 2 as scheduled) Whitehouse

The art, customs, history, literature, and social philosophy of the peoples of Latin America as a basis for a full understanding and appreciation of their cultural evolution. Conducted in Spanish. Prereq., 102.

211. SPANISH AMERICAN LITERATURE

(1 to 3) Whitehouse, Ondis

Important literary productions of the chief Spanish American countries are read. Maximum credit in course, 6 hrs. Prereq., 102.

212. NINETEENTH CENTURY SPANISH LITERATURE

(2 or 3) Whitehouse, Ondis

Prereq., 102.

213. CONTEMPORARY SPANISH LITERATURE (1950-1951)

(2 or 3) Whitehouse, Ondis

Prereq., 102.

215, 216. THE SPANISH NOVEL

(2 or 3, 2 or 3) The Staff

Sp. 215 covers the evolution of the novel in Spain from the earliest times to 1700; Sp. 216, the Spanish novel from 1700 to the present. Prereq., 102.

251, 252. ADVANCED SPANISH GRAMMAR (1951-1952)

(3, 3) Ondis

Study of the peculiarities of Spanish grammar and syntax. Analysis of difficult texts. Free composition and oral reports. Prereq., 102.

271. ADVANCED SPANISH

(1 to 4) The Staff

Maximum credit in course, 16 hrs. Prereq., 20 hrs.

a. Early period. The Epic, particularly the *Poema del Cid*, and Chronicles.

b. Early prose and poetry. Don Juan Manuel and the Arcipreste de Hita.

c. The Romancero. The Romances of Chivalry and the realistic novel.

d. Sixteenth century. The mystics. Three types of novel: Moorish, pastoral, and picaresque.

e. Seventeenth century. The works of Cervantes, except the *Quijote*, and the chief dramatists.

f. Development of the theatre in the seventeenth century.

g. Recent developments in Spanish literature: novel, drama, and essay.

h. Benito Perez Galdos. Novels.

291. RESEARCH IN SPANISH (2 to 4) Whitehouse, Ondis
Prereq., 20 hrs.

341-342. ROMANCE PHILOLOGY (OLD SPANISH AND PORTUGUESE) (2-2) The Staff
See "Romance Philology."

395. THESIS (1 to 8) The Staff
Prereq., permission.

ROMANCE PHILOLOGY—See Romance Languages

RUSSIAN Acting Assistant Professor Hammer

1-2. BEGINNING RUSSIAN (4-4) Hammer
Instruction in the reading of the Russian printed characters and use of the Russian handwriting, grammar, idiomatic expressions, conversation and reading of prose.

101-102. INTERMEDIATE RUSSIAN (4-4) Hammer
Reading of poems, plays, and literary and scientific prose. Review of grammar. Conversation and composition. Prereq., 2.

SCULPTURE—See Art

SECRETARIAL STUDIES Associate Professor Sponseller (chairman)
Assistant Professors Hardenburg, Via, Appel
Instructor Raymond

15. TYPEWRITING (2) Hardenburg, Raymond
This course is designed to develop basic skill in the operation of the typewriter and to develop an ability to apply this skill to the more common typing practices such as personal and business letters, manuscripts, and tabulation. Students are expected to attain a rate of 30 words a minute. Students who have had typewriting in high school may register for 16 or 111 depending upon results of placement examination. 5 lec. and 1 lab. Fee, \$2.

16. TYPEWRITING (2) Appel
This course is planned to develop further the basic skill in the operation of the typewriter, to build sustained typing control and speed, and to apply that skill to quantity production of commonly used business forms. Students are expected to attain a rate of 45 words a minute. 5 lec. and 1 lab. Prereq., 15 with a scholastic average of at least 2.0. Fee, \$2.

31. SHORTHAND (3) Appel, Via, Raymond
A course in the theory of Gregg Simplified shorthand. A student should develop the ability to take dictation at the rate of 60 words per minute on a five-minute take of new material. Students who have had

shorthand in high school may register for 32 or 151 depending upon results of placement examination. Four hours a week. Prereq., 15 or with 15.

32. SHORTHAND (3) Appel, Via, Raymond

A course planned to increase the student's ability to take dictation. A dictation rate of 80 words per minute on a five-minute take of new material is the standard for credit. Four hours a week. Prereq., 31 with a scholastic average of at least 2.0.

111. TYPEWRITING (2) Hardenburg

A course planned to develop typewriting speed and accuracy. 5 lec. and 1 lab. Prereq., 16 with a scholastic average of at least 2.0, or 45-word speed test. Fee, \$2.

120. BUSINESS LETTER WRITING (3) Sponseller, Hardenburg

The purpose of the course is to assist the student in attaining a high proficiency in the use of English for business purposes; that is, to aid him in writing effective business letters and reports for typical business situations. Prereq., Eng. 4.

151. BEGINNING DICTATION AND TRANSCRIPTION (5) Appel

The fundamental principles of taking dictation and transcribing business letters. The standard for credit is the ability to take letter dictation at 120 words per minute and transcribe at the rate of 25 words per minute. Two hours a day, five days a week. Prereq., 16 and 32 with scholastic average of at least 2.0. Fee, \$2.

152. ADVANCED DICTATION AND TRANSCRIPTION (5) Raymond

The standard for credit is the ability to pass the National Clerical Ability Test, to take letter dictation at 140 words per minute and transcribe at the rate of 35 words per minute. Two hours a day, five days a week. Prereq., 151 with a scholastic average of at least 2.0. Fee, \$2.

153. SPECIALIZED DICTATION AND TRANSCRIPTION (3) Via

For those who wish to secure positions which require greater speed than that required by the ordinary business office. Practice is given in writing forms used in a wide variety of professional offices. One hour daily. Prereq., 152 with a scholastic average of at least 2.0. Fee, \$2.

156. COURT REPORTING (3) Appel

The techniques of reporting in shorthand and transcribing court proceedings, hearings, meetings, etc. One hour daily. Prereq., 111 and 152 with a scholastic average of at least 2.0. Fee, \$2.

161s. TEACHING OF SHORTHAND (2) Appel

(Same as Ed. 161s) Prereq., 151 or an 80-word dictation test.

161t. TEACHING OF TYPEWRITING (2) Raymond

(Same as Ed. 161t) Prereq., 16 or 111.

171. SECRETARIAL THEORY (2) Via

Designed to give training in the operation of office machines and in the duties of a private secretary. Five hours a week. Prereq., 16, 32, and Acct. 75. Fee, \$3.

172. SECRETARIAL THEORY (2) Harbenburg
Designed to give the student training in filing and in the use of the commercial dictaphone. Five hours a week. Prereq., 16. Fee, \$2.

175. SECRETARIAL PRACTICE (4) Sponseller
Students spend five hours a week working in offices on the campus, and five hours in the secretarial practice laboratory and conference. Prereq., 151 and 171.

180. OPERATION OF OFFICE MACHINERY (2) Hardenburg
The purpose of the course is to give the student a working knowledge of typical business machines used in offices. Five hours a week. Prereq., junior or senior rank Fee, \$3.

185. OFFICE MANAGEMENT (3) Via
A study of the principles governing office administration with emphasis upon organization, management, layout, equipment, and functions. Prereq., junior or senior rank.

235. COMMERCIAL CURRICULUM CONSTRUCTION (2) Appel
A course involving the principles and factors necessary in the construction of a curriculum of commercial courses in the high schools of varied communities. Prereq., 20 hrs. commerce.

237. ADMINISTRATION IN BUSINESS EDUCATION (3 to 6) Sponseller
Consideration of the problems involved in planning, administering, and supervising a business education program in the high school. Prereq., 20 hrs. commerce and permission.

287. RESEARCH IN BUSINESS TEACHING PROBLEMS (2 to 8) The Staff
Prereq., 20 hrs. commerce, senior rank, and permission.

391. SEMINAR IN BUSINESS TEACHING PROBLEMS (2 to 4) The Staff
Maximum credit in course, 10 hrs. Prereq., 20 hrs. commerce and permission.

395. THESIS (1 to 8) The Staff
Prereq., permission.

SOCIOLOGY

Professor E. A. Taylor (chairman)

Associate Professor Jeddelloh

Assistant Professors Owen, Zietz, Druggan

Instructors Frohlich, B. R. Black

The major requirement in sociology for the A.B. degree is a minimum of 24 semester hours including Soc. 1, 2, and additional courses selected in accordance with the student's line of specialization and departmental approval. Students preparing for positions in social case work, group work, community organization, government service, or work in applied criminology and delinquency will be expected to add to the major requirement a minimum of 8 hours in the appropriate case work, internship, research, or other approved professional courses. See Preparation for Social Work, page 106.

The major requirement in sociology for the B.S. in Education degree is given on page 128.

1. GENERAL SOCIOLOGY

(3) Jeddelloh, Taylor

An elementary study of fundamental characteristics of culture and society; an analysis of social groups, social institutions, and social processes; the nature of social change; and sociology as a social science.

2. SOCIAL PROBLEMS

(3) Jeddelloh, Taylor

An elementary study of a limited number of social problems revealing the stresses and strains of contemporary social life as they affect the human personality, the family, the community and its institutions, and some aspects of national life; the application of sociological principles, methods, and techniques in the analysis of problems; the evaluation of solutions and programs. Prereq., 1 or permission.

5. RURAL SOCIOLOGY

(2) Taylor

The composition of rural population, the rural family and standards of living, and an analysis of rural institutions. The fundamental differences between rural and urban groups, and the major rural social processes.

104. COMMUNITY ORGANIZATION

(3) Frohlich

An analysis of the structure of the community. A study of social agencies in relation to community organization; ways and means of planning and organizing the social welfare services of the community to meet its social needs. Prereq., 3 hrs.

105. RACE RELATIONS

(3) Frohlich

A survey of the status and adjustment of minority racial groups in the United States, with special attention to the American Negro. Problems of race consciousness, race prejudice, and race conflicts. Regional variations in interracial conflicts and adjustments. Prereq., 3 hrs.

106. RURAL SOCIAL ORGANIZATION

(2) Taylor

The basic organizations in rural life including the Grange, Farm Bureau, Rural Extension Work, farmers' cooperatives, and governmental agencies; the structure and function of private organizations which aim to improve rural life. Prereq., 3 hrs.

107. EDUCATIONAL SOCIOLOGY

(3) Jeddelloh

A study of the social nature and function of education in contemporary society; factors influencing the social status and personalities of pupils; the problem child in school; sociological aspects of learning, teaching, classroom organization, and the curriculum; the school in its relation to the community. Supplementary laboratory work and field observations. Prereq., 3 hrs.

110. PSYCHOLOGICAL FACTORS IN SOCIETY

(3) Owen

The social and cultural foundations of human personality. An analysis of the role of language in behavior, prejudice, crowds, audiences, publics, fashion, public opinion, leadership, censorship, and propaganda. Prereq., 3 hrs.

125. SOCIAL ANTHROPOLOGY

(3) Taylor

Origin and development of our prehistoric ancestors; the customs, institutions, and behavior of primitive tribes including case studies of the American Indians, African tribes, and other preliterate groups. Prereq., 3 hrs.

133. FIELDS OF SOCIAL WORK

(2) Zietz

A survey of the functions, methods, and philosophy of professional social work, its relation to other professions, the divisions of the field, personal qualifications and academic preparation required, and trends in employment opportunities. Prereq., 3 hrs.

135. MATERNAL AND CHILD HEALTH

(3) Druggan

A study of the normal biological and physiological processes of human reproduction together with the varied factors, both personal and social, which influence the welfare of both mother and child. Emphasis will be on underprivileged families. Prereq., 3 hrs.

137. SOCIAL STATISTICS

(3) Frohlich

A survey of elementary statistical concepts with special applications to social data: methods of tabulation, graphical representation, measures of central tendency, dispersion, and correlation; elementary problems of sampling. Prereq., 3 hrs.

139. MEDICAL INFORMATION FOR SOCIAL WORKERS

(3) Druggan

The causes, symptoms, transmission and theory of the treatment of illness, with emphasis on communicable diseases and their control. An evaluation of the social components of physical and mental illness. Prereq., 6 hrs., including 133.

169s. TEACHING OF SOCIAL SCIENCE

(2) Jeddelloh

(Same as Ed. 169s)

204. SOCIOLOGY OF RECREATION

(3) The Staff

The historical antecedents and the contemporary functions of recreation and leisure in modern society; theories of motivation; sociologically important trends in contemporary art, music, drama, motion picture, the dance, literature, sports, outdoor living, and travel; community programs of recreation. Prereq., 6 hrs.

205. SOCIAL GROUP WORK

(3) The Staff

An introduction to the principles, methods, techniques, and agencies of group work. Interpreting the group management approach to personality development in social education. Prereq., 6 hrs.

206. SOCIAL GROUP WORK SERVICES

(2) The Staff

Student field training in the leadership of junior and adolescent groups. Prereq., 8 hrs., including 205. Fee, \$5.

208. MARRIAGE AND THE FAMILY

(3) Jeddelloh, Taylor

A study of the institutional and human nature aspects of modern marriage and the family. Attention is given to the formation of personality in the parental family, courtship and marriage relations, family and marital disorganization, and the impact of social change on the family. Prereq., 6 hrs.

210. SOCIAL THEORY

(3) Owen

The earliest social thought; the major contributions of sociologists to social thought with emphasis on recent trends. Prereq., 6 hrs.

211. CRIMINOLOGY AND PENOLOGY

(3) Jeddelloh

The course surveys general facts with respect to crime, the criminal, and his treatment by society. Particular attention is paid to measures and theories which point in the direction of a scientific criminology. Prereq., 6 hrs.

212. POPULATION PROBLEMS

(3) The Staff

Population studied from the standpoint of numbers and quality in the United States and other sections of the world. Differential fertility, birth control, eugenics, and other problems of population are treated. Prereq., 6 hrs.

218. URBAN SOCIOLOGY

(3) Jeddelloh

The historical development of cities in western society; cities by location, function, and region; trends in urban population; ecological and cultural studies of urban areas; urban problems of welfare, housing, and recreation; city and regional planning. Prereq., 6 hrs.

221. CONTEMPORARY SOCIAL MOVEMENTS

(3) Taylor

The better-known Utopian and socialistic philosophies. The two significant social experiments of the present time, communism and fascism. The more recent proposals for achieving a planned and controlled social order. Prereq., 6 hrs.

222. JUVENILE DELINQUENCY

(3) Jeddelloh

Factors associated with juvenile delinquency, characteristics of delinquents, juvenile court procedure, probation, correctional training in institutions, plans and programs for the prevention of delinquency. Field contact and the handling of realistic data. Prereq., 6 hrs.

223. POVERTY AND ECONOMIC INSECURITY

(3) The Staff

Poverty and economic insecurity with emphasis on measures of treatment and prevention. Social insurance and recent legislation for social security in the United States. Prereq., 6 hrs.

224. CHILD WELFARE

(3) Zietz

Consideration of the legislation providing for child care and protection and the study of problems of children, with emphasis on the function of the family and such substitutes of family services as foster home and institutional care. Prereq., 6 hrs.

234. PUBLIC WELFARE

(3) Zietz

Local, state, and federal organization for relief and public assistance. Analysis and evaluation of direct and work relief programs. Study of case materials dealing with principles and practices of public assistance to dependent children, the blind, the aged, and the unemployed. Prereq., 9 hrs. including 133.

235. PUBLIC WELFARE ADMINISTRATION

(3) The Staff

The history, functions, and problems of organization and administration of public welfare in local, state, and federal governments. Specific problems include relationship between public and private agencies, supervision and control, selection of personnel, need for reorganization, and financing. Prereq., 6 hrs

236. PROPAGANDA (3) Taylor
Methods and techniques of propaganda; its legitimate uses and its abuses; its relation to such social phenomena as stereotypes; sentiments, public opinion, social attitudes, and mass convictions. Prereq., 6 hrs.

238. OBSERVATION IN SOCIAL AGENCIES (1) Jeddelloh, Taylor, Zietz
Observing the functions, methods, and performance of an agency while it is engaged in its day by day activities. The student will participate through assigned tasks; in addition the student will report to the training supervisor for conferences. Two afternoons a week must be set aside for work at the agency. Prereq., 9 hrs., permission.

239. CASE WORK I (2) Zietz
An introductory course in the understanding of the case work process and the development of techniques of interviewing, recording, case analysis and treatment. Prereq., 11 hrs. including 133, and permission.

240. CASE WORK II (2) Zietz
Continuation of Soc. 239 which broadens and deepens the understanding and skills developed in the previous course and which applies to the more advanced type of case in actual practice. Prereq., 12 hrs. including 239, permission.

241. JUVENILE COURT SERVICES I (2) Zietz
A university field work unit is maintained by a cooperative plan with the Juvenile and Probate Courts of Athens County, Ohio. Two school days each week must be reserved for field work. Prereq., 12 hrs. including or with 240. Fee, \$5.

242. JUVENILE COURT SERVICES II (2) Zietz
A continuation of Soc. 241 on an advanced level. Prereq., 12 hrs. including 241, permission. Fee, \$5.

243, 244. CHILD WELFARE SERVICES (2, 2) Zietz
A university field work unit is maintained through a cooperative plan with child welfare service in Athens County, Ohio. Two school days each week must be reserved for field work. Prereq., 12 hrs. including or with 240. Fee, \$5 a semester.

245, 246. FAMILY WELFARE SERVICES (2, 2) Zietz
The family case worker is trained through a cooperative plan with a selected family welfare agency working in the rural counties of this region. Two school days each week must be reserved for field work. Prereq., 12 hrs. including or with 240. Fee, \$5 a semester.

247a. VISITING TEACHER (Summer session only) (3) Jeddelloh and Staff
(Same as Ed. 247a) Prereq., 6 hrs., teaching experience, and permission. Fee, \$3.

249. CASE WORK IN PUBLIC WELFARE (3) Zietz
The functions, materials, and the special approach of case work with the aged. Prereq., 12 hrs. including 239, or equivalent professional experience; permission.

250. ADVANCED CASE WORK IN PUBLIC WELFARE (3) The Staff
An intensified and enriched course in the principles and procedures of the case work approach to the problems of the aged. Prereq., 15 hrs. including 239 and 249 or equivalent professional experience, permission.

251. PROBLEMS OF THE AGED (3) Jeddelloh
An intensive study of the health and the personality of the aged and of senile deterioration; the nature, extent, and use of community facilities in dealing with these problems; the important but limited role of the case worker in this connection. Lectures, clinics, and project work. Prereq., 15 hrs. including 249, or equivalent professional experience; permission.

253. INSTITUTIONAL SOCIAL SERVICE (3 to 5) Zietz, Jeddelloh, Taylor
Internship in correctional institutions and institutions for the care of children. The course includes training in staff duties at the institution. Prereq., 12 hrs. and permission.

255. INTERNSHIP TRAINING IN JUVENILE COURTS (3 to 6) Zietz, Jeddelloh
Training in staff duties in juvenile courts on an internship basis, supplemented by a controlled program of study and research. Prereq., 15 hrs.

257. INTERNSHIP TRAINING IN SOCIAL AGENCIES (3 to 8) Jeddelloh, Zietz, Taylor
Case work training in social agencies on an internship basis under the immediate supervision and direction of the agencies and the general control and program planning of the university. Prereq., 15 hrs. and permission.

270. IN-SERVICE TRAINING (1 to 3) The Staff
In-service training for court and welfare personnel at the request of organizations, agencies, and institutions. Upgrading and "refreshing" of workers in particular professional situations on the basis of field conditions and needs. Prereq., graduate students, 6 hrs.; others, experience, permission.

272. COMMUNITY SURVEY AND PLANNING (1 to 3) The Staff
At the request of organizations, agencies, and institutions, community leaders and groups are trained in the planning and management of particular community studies, surveys, and planning projects. Prereq., graduate students, 6 hrs.; others, experience, permission.

281. SOCIAL RESEARCH (3) The Staff
The methods of quantitative and qualitative social research are presented. Procedures for planning, organizing, and conducting research projects are analyzed. Applications are made to specific problems by the students. Prereq., 9 hrs. and a course in statistics.

381. RESEARCH PROBLEMS IN SOCIOLOGY (1 to 3) The Staff
Prereq., 12 hrs., permission.

391. SEMINAR IN SOCIOLOGY (2 or 3) The Staff
Prereq., 15 hrs.

395. THESIS (1 to 8) The Staff
Prereq., permission.

SPANISH—See Romance Languages**SPEECH AND SPEECH CORRECTION**

Professors Staats, Kantner
Associate Professors Jukes, Andersch, LaFollette
Assistant Professors Lane, Rock
Instructors Hahne, Pearce, Lewis, Beasley,
Robinson, Wiseman

SPEECH**1. FUNDAMENTALS OF SPEECH**

(1) Andersch, The Staff

Speech training based on a diagnostic study of each student's speech needs and abilities. Classroom performances afford the opportunity of acquiring and developing basic techniques which will aid in easy and effective participation in everyday speaking situations. Students with special speech problems will be given the opportunity of individual remedial instruction. Fee, \$1.

3. PUBLIC SPEAKING

(2) Staats, Pearce, Wiseman

A fundamental course in effective speaking. Practice in presenting short informative, entertaining, and persuasive speeches with emphasis upon intellectual and emotional adjustments to speaking situations. Conferences with instructor. Prereq., 1 or proficiency test.

25. PRINCIPLES OF ARGUMENTATION

(2) Staats

Analysis of the debate proposition, preparation of the brief, study of evidence, and class debates.

34. ORAL INTERPRETATION OF LITERATURE

(3) Pearce, Robinson, Hahne

Effective techniques in reading aloud and the development of adequate intellectual and emotional responsiveness to the meaning of literature. Discussion of theory, study of literature adapted to oral interpretation, drill in reading aloud each class period, and preparation of programs. Prereq., 2 or 3.

47. SPEECH LABORATORY

(1) The Staff

Participation under direction in various speech activities. Preparation of programs for classroom and public performance. Maximum credit in course, 2 hrs. 2 lab.

112. ADVANCED PUBLIC SPEAKING

(3) Staats, Pearce

An extended study and application of the principles of public speaking. Special emphasis is placed on the content of the speech. A practical study of public discussion as a social problem-solving technique and of parliamentary procedure is included. Prereq., 3 or permission.

113. PUBLIC ADDRESS

(2) Staats

Designed to furnish the student a deeper insight into the rhetorical aspects of the public address. This course furnishes opportunity for the preparation of speeches for local, state, and national oratorical contests. Emphasis is placed on informal, conversational delivery. Classical standards as to preparation and organization are maintained. Prereq., 2, 3, or 112, and 25.

117. DEBATE PRACTICE

(2) Staats, Pearce

Preparation of debate cases and participation in intercollegiate debates. Maximum credit in course, 6 hrs. Prereq., 25. Fee, \$2.

162x. TEACHING OF HIGH SCHOOL DRAMATICS AND SPEECH

(3) Andersch

(Same as Ed. 162x) Emphasis placed on the organization of curricular and co-curricular speech and dramatic activities. A comprehensive analysis of materials available to the secondary school. Methods of casting, staging and producing plays. Consideration of problems in the coaching of debate and oratory. Prereq., 4 hrs., 12 hrs. English and permission. Teaching experience may be accepted in lieu of course prerequisites.

202. ADVANCED ORAL INTERPRETATION

(3) Staats, Pearce, Hahne

Continuation of Speech 34 with emphasis upon developing skill in oral rendition of the short story, prose, and various forms of poetry. Prereq., 34.

209. RHETORICAL THEORY

(3) Staats

A detailed study of the principles of rhetoric based upon the theories of Aristotle, Cicero, Quintilian, and Adams. Modern viewpoints are investigated; speeches of eminent orators are analyzed. Prereq., F. A. 203 and 204.

391. SEMINAR IN SPEECH

(2 or 3) Staats, Andersch

Problems in speech, the various speech movements, and the evolution of the speech curriculum. Remedial speech demands in the elementary and secondary school work. Assigned problems. Prereq., 15 hrs.

395. THESIS

(1 to 6) The Staff

Prereq., permission.

Additional course:

F. A. 203-204—History of Oratory

SPEECH CORRECTION

2. VOICE AND ARTICULATION

(2) LaFollette, The Staff

Designed to help each student to discover and remedy his vocal and articulatory problems. Group drills and individual instruction arranged to develop good voices and good voice control. Special attention given to pronunciation problems. Fee, \$2.

4. REMEDIAL SPEECH

(1 or 2) LaFollette, The Staff

The Speech and Hearing Clinic is equipped and staffed to aid students in overcoming special speech problems. Instruction and supervised remedial practice is offered for individuals and small groups. Enrollment with permission at any time up to four weeks prior to the end of the semester. Not to be counted in hours for graduation.

162s. SPEECH AND HEARING THERAPY IN THE
PUBLIC SCHOOLS

(2) Beasley

(Same as Ed. 162s) A course dealing with the organization and implementation of speech and hearing programs in the public schools. Consideration of methods especially adapted to the public school situation. Must be taken concurrently with Ed. 186.

195. PRINCIPLES OF VOICE CORRECTION

(3) Andersch

The nature, symptoms, causes, etiology, and diagnosis of disorders of speech and voice. Emphasis on methods and techniques in the correction of common speech defects. Prereq., 6 hrs., Psych. 1 or 5, or permission.

207. CLINICAL METHODS

(3) Beasley

Basic orientation to speech therapy. Observation of children with normal and defective speech. Clinical work in the school situation and in the University Children's Speech Clinic. Prereq., 6 hrs., including 195.

210. SPEECH PATHOLOGY

(3) LaFollette

A detailed study of the anatomy of the vocal mechanism and speech disorders, such as stuttering, aphasia, cleft palate speech, spastic speech, and speech of the hard of hearing. 3 lec. Prereq., 195.

212. PHONETICS

(3) Kantner

The study of speech sounds from a sociological, physiological, and acoustical point of view. Mastery of the international phonetic alphabet. Training in phonetic transcription. Discussion of various American dialects. Presentation of the sound systems of French, Italian, Spanish and German. Prereq., 6 hrs. or permission.

219. AUDIOMETRY AND SPEECH AND HEARING PROBLEMS

(3) LaFollette

Techniques of audiometric testing and clinical practice in the testing of children and adults. Interpretation of audiograms, criteria for educational placement, and referral of individuals with hearing loss. Principles of hearing aid selection. Organization of hearing conservation programs in the public school. Prereq., 6 hrs., or equivalent of 6 hrs., and permission. Fee, \$8.

220. ADVANCED CLINICAL METHODS

(3) LaFollette

Methods in speech correction for adults, survey of current literature, and clinical experience with adults in such problems as articulatory disorders, lisping, stuttering, aphasia, cerebral palsy, cleft palate and loss of hearing. Prereq., 10 hrs., including 210.

223. LIP READING

(3) LaFollette

The basic principles of understanding language by observing the speaker's lips and facial expression. Emphasis on both theory and practice of speech reading. Special attention given to teaching methods. Prereq., 6 hrs.

392. SEMINAR IN SPEECH CORRECTION

(2 or 3) Kantner

Emphasis on reading, reporting, and discussing current literature and advanced research in the field of speech correction. Individual reading projects covering different types of speech defects. Class reports and discussions. Prereq., 12 hrs., including 195.

395. THESIS

(1 to 6) The Staff

Prereq., permission.

See also Dramatic Art, page 201, and Radio, page 290. See Education 186 for Practice Teaching in Speech Correction.

STATISTICS**155-156. BUSINESS STATISTICS**

(3-3) The Staff

Elementary statistical methods used in business. 2 lec. and 2 lab. Fee, \$2 a semester.

171. ANALYSIS OF STATISTICAL DATA

(3) The Staff

The use and analysis of charts in controlling production, sales, and investment policies of business organizations. The interpretation of the validity and meaning of statistical concepts and published statistical data. Prereq., 155.

203. VARIABLES

(3) The Staff

The application of sampling theory to industrial operations. A course in industrial statistics especially recommended for students interested in production control. Prereq., 155 and Ec. 102.

206. TIME SERIES

(3) The Staff

The analysis of trends, seasonals and cyclical fluctuations. A course designed for students interested in economic research or the application of statistical techniques to industrial management. Prereq., 156 and Ec. 102.

241. BUSINESS CYCLES

(3) The Staff

A study of the nature, causes, and theory of the business cycle together with a survey of techniques of description and control. Prereq., 155, or with 155, and Ec. 102.

245. FORECASTING

(3) The Staff

The theory of prediction of social data and the theory of business forecasting with special reference to economic conditions and the business cycle. Prereq., 156, or with 156, and Ec. 102.

281. RESEARCH IN BUSINESS STATISTICS

(2 to 8) The Staff

Prereq., 13 hrs. commerce including 156 and permission.

391. SEMINAR IN BUSINESS STATISTICS

(2 to 4) The Staff

Maximum credit in course, 10 hrs. Prereq., 18 hrs. commerce including 156 and permission.

395. THESIS

(1 to 8) The Staff

Prereq., permission.

Additional course:

Math. 226—Theory of Statistics

ZOOLOGY

Professors Krecker, Elliott (chairman), Frey, Stehr

Associate Professor Rowles

Assistant Professor Seibert

Instructor Wienert

Research Associate L. S. Roach

The major requirement in zoology for the A.B. degree is a minimum of 24 hours in approved departmental courses; for the B.S. degree, a minimum of 30 hours. These courses must include Zool. 3-4, 107, 120 or 121, 135 or 205. In addition, the following extra-departmental courses

are required: Chem. 1-2 or 3-4, Math. 5 or 125, Phil. 103 or 201. Pre-medical students are urged to elect Math. 5 and to include this as a part of their freshman program whenever possible, and the course should be elected not later than the sophomore year. Students who substitute a year in medical or dental school for the senior year or who complete the hospital training in nursing are credited with 10 hours on the major for a B.S. degree and 8 hours on the major for the A.B. degree. Those who complete the affiliated training in medical technology at Mount Carmel Hospital are credited with 32 hours toward the B.S. degree. In event a student completes nurses training in a fully-accredited hospital before beginning work on a bachelor's degree at Ohio University, she may, on recommendation of the Department of Zoology and the approval of the Dean, receive a maximum of 30 hours' elective credit toward a bachelor's degree.

Curricula are outlined by the College of Arts and Sciences for students in premedical, predental, nursing, and medical technology courses. Students who wish to prepare for federal or state biological services such as game management, biological surveys, fisheries, and insect control should consult with the chairman of the department. A curriculum on insect control is given on page 103.

The major requirement in zoology for the B.S. in Education degree is given on page 128.

3-4. PRINCIPLES OF ZOOLOGY (3-3) Krecker, Seibert, Stehr, Wienert

A survey of biological principles. Chief topics: elementary physiology and structure of a mammal illustrating energy transformation and organization of a living system; bacteria and plants with primary emphasis on those structural and functional phases which serve as a link in the food-cosmic energy cycle; basis and utility of classification with economic consideration of animal groups; factors in growth and reproduction; doctrine of evolution with emphasis upon its implications for human affairs; factors determining the distribution of organisms and their relation to the environment; genetics and the pattern of heredity. 2 lec. and 2 lab. Fee, \$5 a semester.

103. READINGS IN BIOLOGY

(1) Krecker

A course for students interested in advances in biological fact and thought, especially as applied to the field of human affairs. Prereq., 4 or high school biology. Fee, \$2.

107. PRINCIPLES OF HEREDITY

(3) Krecker

An introduction to heredity. Fundamental principles and mechanism of heredity and a review of what is known regarding heredity in man. Consideration of practical applications to heredity in social welfare, public affairs, and race betterment. Prereq., 4, or 6 hrs. botany.

113. BIOLOGY OF VERTEBRATES

(4) Seibert

A study of vertebrate animals, other than birds, emphasizing classification, life histories, and distribution. Discussions and study of museum collection, supplemented with field work. 2 lec., 4 lab., and field work. Prereq., 4. Fee, \$5.

116. ANIMAL COMMUNITIES

(4) Seibert

A study of animals in relation to their surroundings. Discussion of the general principles governing animal distribution and animal communities. 2 lec. and 4 lab. or field work. Prereq., 4. Fee, \$5.

118. ORNITHOLOGY

(3) Seibert

A study of birds and bird biology, including classification, migration, general anatomy and physiology, life histories, and economic values. Emphasis on field identification. 2 lec., 2 lab. or field work. Prereq., 4. Fee, \$4.

119. GENERAL ENTOMOLOGY

(4) Stehr

A study of the structure, habits, and life histories of insects, with practice in collecting, mounting, and identification. 2 lec. and 4 lab. Prereq., 4. Fee, \$5.

120. COMPARATIVE VERTEBRATE ANATOMY

(4) Elliott

A comparative study of the body systems of vertebrates, with laboratory work covering various type forms. 2 lec. and 4 lab. Prereq., 4. Fee, \$7.

121. ELEMENTS OF ANATOMY

(3) Elliott

Course for majors in zoology other than premedical students. Particular emphasis is given to a study and dissection of the head, thorax, and abdomen of the mammal. Illustrated by dissection of a cat. 2 lec. and 2 lab. Prereq., 4. Fee, \$7.

123. ANATOMY AND KINESIOLOGY

(4) Wienert, Trepp

(Same as P. E. 123) Course for majors in physical education and athletics. All body systems are studied, with particular emphasis on the skeleton, joints and muscles, including muscular movements and muscular exercises in their relation to the problems of bodily development and efficiency. Prereq., 4. Fee, \$7.

124. HISTOLOGY

(4) Wienert

A study of the fundamental body tissues of vertebrates followed by a study of the histology of the various body systems. 2 lec. and 4 lab. Prereq., 120 or 121. Fee, \$7.

125. ANIMAL MICROTECHNIC

(2) Wienert

The principles and methods of preparing animal material for microscopic study. Practice in fixing, embedding, sectioning, staining, and mounting tissues. Principles of the microscope and its accessories. 1 lec. and 4 lab. Prereq., 4, junior or senior rank. Fee, \$6.

135. ELEMENTS OF PHYSIOLOGY

(4) Rowles

Blood, digestion, metabolism, circulation, respiration, excretion, reproduction, internal secretion. Recommended for home economics students and department majors exclusive of premedical students. Offered each semester. 2 lec. and 4 lab. Prereq., 4, or 3 and 6 hrs. home economics. A knowledge of organic chemistry is desirable. Fee, \$6.

136. ELEMENTS OF PHYSIOLOGY

(4) Rowles

Physiology of muscle and nerve, central nervous system, special senses, circulation, respiration, excretion. Special emphasis is placed

upon aspects of physiology related to exercise. Recommended for physical education students. 2 lec. and 4 lab. Prereq., 120 or 123. Fee, \$6.

138. PHYSIOLOGICAL CHEMISTRY (Not offered in 1950-1951) (3) Rowles

An elementary course which includes: the chemistry of carbohydrates, proteins, fats, and phospholipids; enzyme action; digestion of foods; absorption and history of foods in the body; urine analysis; energy requirements of the body; vitamins; hormones. 2 lec. and 4 lab. Prereq., Chem. 113 with 117; open to home economics majors only. Fee, \$7.

141. ELEMENTARY BACTERIOLOGY (4) Frey

Morphology and physiology of bacteria, staining reactions, preparation of media, and the biochemical reactions resulting from bacterial activity. Bacteriology majors are referred to Zool. 211. 2 lec. and 4 lab. Prereq., 4, or 6 hrs. botany, or 8 hrs. chemistry. Fee, \$6.

145. CLINICAL TECHNIC (2) Frey

The theory and practice of making various tests used in laboratories of clinical pathology with emphasis upon hematology and urinalysis. Prereq., 211 and permission. Fee, \$3.

146. CLINICAL TECHNIC (2) Frey

A continuation of course 145. Major emphasis will be upon blood chemistry determinations and other advanced techniques. Prereq., 145 and permission. Fee, \$3.

168z. TEACHING OF ZOOLOGY (2) Stehr

(Same as Ed. 168z) The following topics are among those considered: aims and objectives of zoology courses; survey of available texts, manuals, and reference books; various methods of instruction; sources of laboratory equipment and supplies; special aids in instruction; examinations; controversial topics in biology. The student is given opportunity to examine and use the books, materials, and equipment discussed. Prereq., 4 and an additional laboratory course in zoology.

201. MAMMALIAN ANATOMY (4) Elliott

The anatomy of mammals with particular emphasis on the cat. 2 lec. and 4 lab. Prereq., 120. Fee, \$7.

202. VERTEBRATE EMBRYOLOGY (4) Elliott

All phases of vertebrate development are considered, and particular emphasis in laboratory is given to the chick and the pig. 2 lec. and 6 lab. Prereq., 120. Fee, \$7.

204. VERTEBRATE NEUROLOGY (4) Elliott

A comparative study of the brain and spinal cord of vertebrates with emphasis upon the reaction systems. A preliminary study of the embryological development and general histological structure of the nervous system. Dissection of the brain of shark, sheep, and man are followed by a microscopic study of various levels of brain and spinal cord. 2 lec. and 4 lab. Prereq., 120. Fee, \$6.

205. PRINCIPLES OF PHYSIOLOGY (4) Rowles

Fundamental principles of the activity of living things, the physico-chemical composition of living material, the functions of cell components,

properties of solutions, membrane phenomena, enzymes, secretions, and biological media. Not open for graduate credit to students majoring in physiology. 2 lec. and 6 lab. Prereq., 4 and Chem. 2 or 4. Fee, \$6.

209. BIOLOGICAL CHEMISTRY

(4) Rowles

A brief introduction to physical chemistry of true and colloidal solutions; fundamental principles of enzyme action; chemical nature of and tests for: carbohydrates, proteins, fats; digestion, and metabolism; chemical analysis of: blood, lymph, bile, feces, milk, epithelial and connective tissue, and urine. 2 lec. and 4 lab. Prereq., 4 hrs. physiology and Chem. 113 and 117. Fee, \$7.

211. GENERAL BACTERIOLOGY

(4) Frey

A study of the structure, classification, and relationships of bacteria; preparation of cultures, staining technic, and biochemical reactions. Not open for graduate credit to majors in bacteriology. 2 lec. and 4 lab. Prereq., 4 and Chem. 113. Fee, \$6.

212. PATHOGENIC BACTERIOLOGY

(4) Frey

Bacteria in relation to human disease. The culture and identification of disease-producing bacteria, protozoa, higher fungi, and filterable viruses. Methods of transmission and means of protection, and disease symptoms and immunity. 2 lec. and 4 lab. Prereq., 211. Fee, \$6.

213. BACTERIOLOGICAL REVIEW

(2) Frey

An advanced theoretical course in bacteriology. Special reference is made to dissociation, growth curves of bacteria, anaerobiosis, oxidation and reduction, metabolism of bacteria. Prereq., 8 hrs. bacteriology and permission.

216. ANIMAL PARASITES

(4) Krecker

A study of parasites in relation to human disease. Parasites infesting man, their life histories, the diseases they produce, means of prevention and cure. 2 lec. and 4 lab. Prereq., 10 hrs. and permission. Fee, \$6.

220. ADVANCED ENTOMOLOGY

(4) Stehr

Intensive study of insect morphology and of the principles and methods of insect classification and identification, with special emphasis on the more extensive orders. 2 lec. and 4 lab. Prereq., 119. Fee, \$5.

225-226. INVERTEBRATE ZOOLOGY

(4-4) Stehr

A study of the structure, relationships, and life histories of representative members of the various invertebrate phyla, together with related general principles. 2 lec. and 4 lab. Prereq., 10 hrs. and permission. Fee, \$5.

227. ANIMAL ECOLOGY

(4) Seibert

A detailed study of the effect of environment on animals as well as their physiological and structural adaptations. Includes the effect of temperature on growth and rate of development, Q_{10} , developmental units, photoperiod, dormancy and hibernation, metabolism, osmotic regulation; structure and interaction of populations, vital statistics. Experimental methods in field and laboratory. 2 lec. and 4 lab. or field work. Prereq., 116. Fee, \$5.

234. AQUATIC MANAGEMENT

(3) Roach

A practical course dealing with the manipulation of the natural factors affecting a maximum sustained yield of our aquatic resources. Includes applications of limnology and ichthyology, with emphasis on ecological relationships and habitat preferences of aquatic organisms. 1 lec. and 4 lab. or field work. Prereq., 227. Fee, \$4.

243. BIOLOGICAL STUDIES (1 to 4 a semester in any of the following)

Semi-independent studies under the guidance of the instructor. Maximum credit in course, 12 hrs. Prereq., 10 hrs. and permission. Fee, \$3.

- a. Bacteriology—studies in water, dairy, and pathogenic bacteriology; serology and advanced technic. Frey.
- b. Ecology—field and laboratory studies of the relation between animals and their surroundings. Siebert, Stehr.
- c. Entomology—classification, structure, life histories, and economic aspects of insects. Stehr.
- d. Genetics—breeding experiments, pedigree analysis, and library work in the field of heredity. Krecker.
- e. Invertebrate Zoology—classification, structure, embryology, and life history of invertebrates. Krecker, Stehr.
- f. Parasitology—animal parasites. Krecker.
- g. Physiological Zoology—physiological and related experimental studies. Rowles.
- h. Readings in Biology—readings dealing with biological history, theory, and advances. Krecker.
- i. Technician's Methods—technic and theory of blood, urine, gastric analysis, fecal examination, and serological methods. Frey.
- j. Vertebrate Anatomy—gross and microscopic anatomy, embryology, histological technic. Elliott, Weinert.
- k. Vertebrate Zoology—classification, life history studies. Siebert.

383. MINOR RESEARCH IN BIOLOGY

(1 to 4 a semester in any of the subjects) The Staff

Problems of a research and semi-research nature in anatomy, bacteriology, ecology, entomology, invertebrate zoology, ornithology, parasitology, physiological zoology, and vertebrate zoology. Maximum credit in course, 12 hrs. Prereq., 15 hrs. and permission. Fee, \$3.

385. RESEARCH IN BIOLOGY

(1 to 4) The Staff

Research work in anatomy, bacteriology, ecology, entomology, invertebrate zoology, ornithology, parasitology, physiological zoology, and vertebrate zoology. This course fulfills the thesis requirements. Maximum credit in course, 8 hrs. Prereq., 20 hrs. and permission. Fee, \$3.

391. SEMINAR IN ZOOLOGY

(1) Krecker

A study of special topics and reports on current literature. Maximum credit in course, 8 hrs. Prereq., 16 hrs. and permission.

MEDICAL TECHNOLOGY

Mount Carmel Hospital Staff: H. B. Davidson, M.D., Director

The following courses are offered at Mount Carmel Hospital, Columbus, Ohio. See curriculum on page 102.

191. URINALYSIS Four weeks (3)

The physical, chemical, and microscopic study of urine.

192. HEMATOLOGY Eight weeks (5)

Total red and white blood counts, hemoglobin determinations, differential counts of white blood cells, sedimentation rates, blood typing, and blood cross-matching.

193. BACTERIOLOGY, SEROLOGY, AND PARASITOLOGY Eighteen weeks (11)

A review of the field of medical bacteriology with particular emphasis upon and reference to methods of recognition and detection of various types of bacteria; methods in which blood serum can be used in the recognition and diagnosis of disease; review of the various parasites which are pathogenic to man; methods of examining feces; the microscopic and bacteriologic study of sputum.

194. CHEMISTRY Thirteen weeks (8)

A study of the methods of blood chemistry determinations; methods of gastric analysis and the more complicated chemical procedures for urine and other body products.

195. HISTOLOGIC TECHNIC Six weeks (4)

A review of the fundamental procedures in the preparation of tissue for microscopic examination; a study of the special stains commonly used in microscopic examination of human tissue; experience in handling, on a routine basis, large amounts of human tissue for microscopic study.

196. BASAL METABOLISM AND ELECTROCARDIOGRAPHY Two weeks (1)

Study of the methods of determining the basal metabolic rate, a study of the electrocardiograph and methods of taking electrocardiographic tracings.

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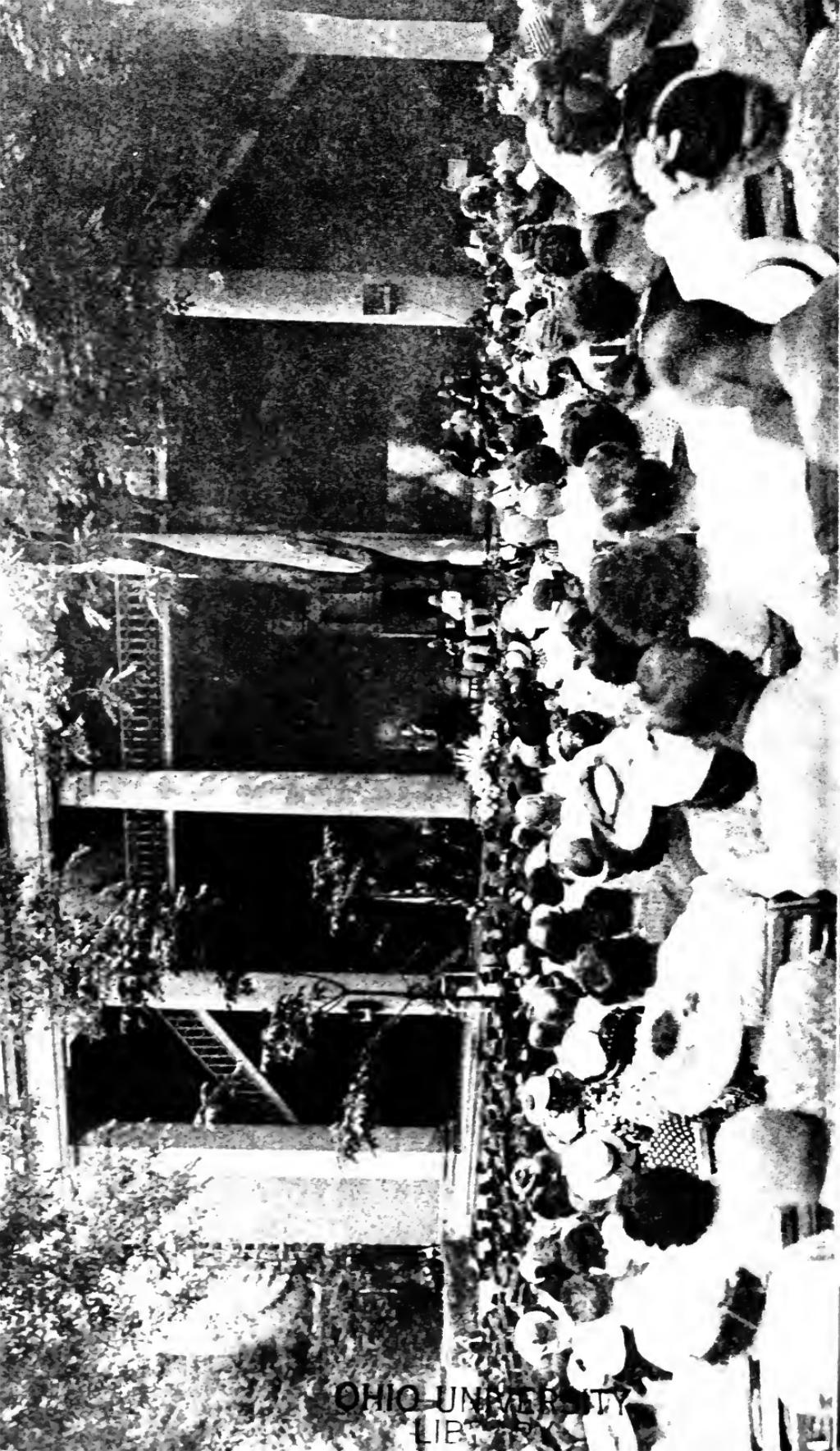
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Campus Affairs—Hunkins, Felsted, Appel, Krauss, Nessley, Pearce, Student representatives: President, Student Council; two Vice Presidents, Student Council; President, Men's Union Planning Board; President, Women's League

Executive—Baker, A. C. Anderson, Armbruster, Dilley, Gamertsfelder, Kabat, Seigfred, Speidel, Starcher, E. J. Taylor, Widdoes

Faculty Lectures—Andersch, Edwards, Frey, Kershner

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Graduate Council—Gamertsfelder, Frey, G. E. Hill, LaFollette, Leavitt, Miller, Ondis, Patrick, Peckham, Roseberry

Honors Work—Staats, Eblin, Stehr, Sturgeon

Intercollegiate Athletics—Thomas, A. C. Anderson, Gustavson, Krauskopf, Lausche, Rice, Roseberry, Widdoes (adviser)

Library—F. N. Jones, Dunlap, Gorton, Hahne, Hansen, Hanson, Wilsey, Wray, and two student representatives

Loan Funds: Policies Committee—Hunkins, Armbruster, Felsted, Seigfred, E. J. Taylor. *Committee on Loans*—Hunkins, Felsted, Sponsor, Williams

Research—Eblin, Cady, E. H. Davidson, Leavitt, Lehman, O'Brien, Wilsey

Scholarship Encouragement—Krauskopf, Gusteson, Krauss, McQuiston, and three student representatives

Scholarships—Starcher, Dilley, Felsted, Hunkins, Knox, Whitehouse

Student Center—Patrick, Bush, Denison, Fenzel, C. Lewis, C. Nelson, Paulsen, Twyman, and eight student representatives

University College—Starcher, Andersch, Benz, Fenzel, Houf, Paige, Paulsen, E. A. Taylor, Wallace, Wray, and five student representatives

*Committees as of February 1, 1950. The first person listed is chairman of the committee.

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RUSH ELLIOTT, Ph.D., *Professor of Anatomy*

LEONA WISE FELSTED*, Ph.D., *Professor of Personnel Administration*

NOTE: Names listed alphabetically within ranks.

†Died February 12, 1950

*Part-time teaching

**On leave of absence

RICHARD ALLEN FOSTER, Ph.D., *Professor of English*
CARL ADAM FREY, Ph.D., *Professor of Bacteriology*
WALTER SYLVESTER GAMERTSFELDER*, Ph.D., LL.D., *Professor of Philosophy and Ethics*
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JOHN ROBERT GENTRY, Ph.D., *Professor of Psychology*
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CLARENCE CRAMER ROBINSON, Mus.M., *Professor of Voice*
HORACE HEWELL ROSEBERRY, Ph.D., *Professor of Physics*

*Part-time teaching

**On leave of absence

THURMAN CARLISLE SCOTT, Ph.D., *Professor of Psychology*
EARL COVERT SEIGFRED*, Ph.D., *Professor of Fine Arts*
FOREST LEROY SHOEMAKER, Ph.D., *Professor of Education*
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WIL HAWKINS, B.S., Master Sergeant, Quartermaster Corps, *Instructor in Military Science and Tactics*

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*Part-time teaching

FRANK BROUH RICHEY, A.B., *Instructor in Physical Education and Athletics, Freshman Football Coach, and Assistant in Baseball*

MARVIN WILLIAM ROBINSON, A.M., *Instructor in Dramatic Art and Speech*

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